Name: Like and Unlike Terms

**Chapter: Operations on Algebraic Expressions** 

Grade: ICSE Grade VI

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- 1. Which of the following terms is a like term of  $3f^4$ ?
  - (i)  $7f^3$  (ii)  $(-2f^4)$  (iii) (-6f) (iv)  $(-3f^2)$  (v) (-8)
- 2. Which of the following terms is a like term of  $(-6r^2)$ ?
  - (i) (-1) (ii)  $2r^3$  (iii) (-9r) (iv)  $(-6r^4)$  (v)  $9r^2$
- 3. Which of the following terms is a like term of (-5r)?
  - (i) 3 (ii)  $(-9r^3)$  (iii) 4r (iv)  $9r^2$  (v)  $(-3r^4)$
- 4. Which of the following is a like term of (-6j)?
  - (i) (-2j) (ii) 6jk (iii) 7/ (iv) (-7k) (v) 6
- 5. Which of the following is a like term of  $8i^2j^2$ ?
  - (i) (-3j) (ii)  $(-6j^2)$  (iii)  $(-6i^2j^2)$  (iv) (-2) (v)  $(-6ij^2)$
- 6. Which of the following is a like term of  $7ik^2$ ?
  - (i)  $6ik^2$  (ii)  $3ik^2$  (iii) 6k (iv)  $(-6i^2)$  (v)  $(-2ij^2k)$
- 7. Which of the following is a like term of  $8i^2j^2h^2$ ?
  - (i)  $(-4h^2i^2j)$  (ii)  $(-5h^2ij)$  (iii)  $9hi^2j$  (iv)  $2h^2ij^2$  (v)  $(-6h^2i^2j^2)$
- 8. Which of the following is a like term of  $(-5g^2h^2f^2)$ ?
  - (i)  $(-6fgh^2)$  (ii)  $(-5fg^2h)$  (iii)  $(-6f^2g^2h^2)$  (iv)  $(-2fg^2h^2)$  (v)  $(-5f^2gh)$
- 9. Which of the following terms is a like term of  $z^3$ ?
  - (i)  $(-4z^3)$  (ii) 3z (iii)  $3z^2$  (iv)  $7z^4$  (v) (-1)
- 10. Which of the following terms is a like term of 5 e?
  - (i)  $(-6e^3)$  (ii) 5e (iii)  $(-6e^2)$  (iv)  $(-4e^4)$  (v) (-8)
- 11. Which of the following terms is a like term of (-3a)?
  - (i)  $(-2a^3)$  (ii) (-8) (iii)  $(-6a^4)$  (iv) (-a) (v)  $9a^2$

12. Which of the following is a like term of $4kl$ ?  (i) $kl$ (ii) $8j$ (iii) $(-3)$ (iv) $6jk$ (v) $5jl$
13. Which of the following is a like term of $(-7f)$ ?  (i) $(-4e^2)$ (ii) $9f$ (iii) $4ef$ (iv) $6e^2f$ (v) $(-2ef^2)$
14. Which of the following is a like term of $2fg^2$ ?  (i) $(-4)$ (ii) $9fg$ (iii) $3e^2g^2$ (iv) $(-6fg^2)$ (v) $(-3ef^2g)$
15. Which of the following is a like term of $8f^2g^2e$ ?  (i) $3efg$ (ii) $9efg^2$ (iii) $(-7ef^2g^2)$ (iv) $e^2fg$ (v) $9e^2f^2g$
16. Which of the following is a like term of $3yz^2x^2$ ?  (i) $x^2y^2z$ (ii) $(-9xy^2z^2)$ (iii) $(-2xyz^2)$ (iv) $(-5x^2yz^2)$ (v) $6x^2y^2z^2$
17. Which of the following terms can be added to $6a^3$ ?  (i) $(-8a^2)$ (ii) $(-2a)$ (iii) $(-6)$ (iv) $a^3$ (v) $(-3a^4)$
18. Which of the following terms can be added to $(-h^3)$ ?  (i) $(-9h)$ (ii) 2 (iii) $(-8h^3)$ (iv) $(-3h^4)$ (v) $(-8h^2)$
19. Which of the following terms can be subtracted from $(-8b)$ ?  (i) $5b^2$ (ii) $(-2b)$ (iii) $8b^4$ (iv) $9b^3$ (v) 2
20. Which of the following terms can be subtracted from 2? (i) $2b^2$ (ii) $7b$ (iii) $7b^4$ (iv) $1$ (v) $(-3b^3)$
21. Which of the following terms can be added to $(-6)$ ?  (i) $2no$ (ii) $2m$ (iii) $(-9)$ (iv) $n$ (v) $5mno$
22. Which of the following terms can be added to $2r^2$ ?  (i) $(-3r^2)$ (ii) $(-8a^2r)$ (iii) $(-8a^2r)$ (iv) $(-6ar)$

23. Which of the following terms can be subtracted from *o*?

(i) (-6no) (ii) (-4mo) (iii) (-o) (iv) (-6) (v) 7mno

(i)  $(-7m^2o)$  (ii)  $(-9m^2n^2o^2)$  (iii)  $(-6m^2n)$  (iv)  $3mo^2$  (v)  $(-5m^2n^2)$ 

24. Which of the following terms can be subtracted from  $(-3 m^2 n)$ ?

25. Which of the following terms can be added to $6vu^2w^2$ ?  (i) $(-7uv^2w)$ (ii) $(-9u^2vw^2)$ (iii) $6u^2v^2w^2$ (iv) $8uvw^2$ (v) $(-9uv^2w^2)$ 26. Which of the following terms can be added to $(-7onp^2)$ ?  (i) $nop^2$ (ii) $5n^2op$ (iii) $6n^2o^2p^2$ (iv) $(-9n^2o^2p)$ (v) $5no^2p$ 27. Which of the following terms can be subtracted from $(-6u^2v^2t^2)$ ?  (i) $7t^2u^2v^2$ (ii) $3tu^2v$ (iii) $(-9tuv^2)$ (iv) $9t^2u^2v$ (v) $(-3t^2uv^2)$ 28. Which of the following terms can be subtracted from $9tm^2k^2$ ?  (i) $4ktm^2$ (ii) $5kt^2m$ (iii) $(-k^2tm^2)$ (iv) $8ktm$ (v) $9k^2t^2m^2$ 29. Which of the following terms can be added to $7n^4$ ?  (i) $(-4n^4)$ (ii) $9n^2$ (iii) $(-4)$ (iv) $4n^3$ (v) $3n$ 30. Which of the following terms can be added to $(-8p^2)$ ?  (i) $(-5p)$ (ii) $(-5p^2)$ (iii) $(-3p^3)$ (iv) $6p^4$ (v) $2$ 31. Which of the following terms can be subtracted from $(-4a^2)$ ?  (i) $3t^4$ (ii) $(-4a)$ (iii) $6t^4$ (iv) $(-9a^3)$ (v) $9a^2$ 32. Which of the following terms can be subtracted from $(-4a^2)$ ?  (i) $3t^4$ (ii) $(-4a)$ (iii) $5t^4$ (iv) $(-5a^2)$ (v) $6t^4$ 33. Which of the following terms can be added to $(-5)$ ?  (i) $(-7t)^2$ (ii) $(-9)^2$ (iii) $(-7t)^2c^2$ (iv) $6t^2c^2$ (v) $6t^2c^2$ 34. Which of the following terms can be added to $(-5)$ ?  (i) $(-7t)^2$ (ii) $(-9)^2$ (iii) $(-7t)^2c^2$ (iv) $(-5t^2)^2$ (v) $(-4t^2)^2$ 35. Which of the following terms can be subtracted from $(-9o)$ ?  (i) $at^2$ (ii) $at^2$ (iii) $at^2$ (iii) $at^2$ (iv) $at^2$ (iv	
26. Which of the following terms can be added to $(-7  onp^2)$ ?  (i) $nop^2$ (ii) $5n^2op$ (iii) $6n^2o^2p^2$ (iv) $(-9n^2o^2p)$ (v) $5no^2p$ 27. Which of the following terms can be subtracted from $(-6u^2v^2t^2)$ ?  (i) $7t^2u^2v^2$ (ii) $3tu^2v$ (iii) $(-9tuv^2)$ (iv) $9t^2u^2v$ (v) $(-3t^2uv^2)$ 28. Which of the following terms can be subtracted from $9  lm^2k^2$ ?  (i) $4k  lm^2$ (ii) $5k^2m$ (iii) $(-k^2  lm^2)$ (iv) $8k  lm$ (v) $9k^2l^2m^2$ 29. Which of the following terms can be added to $7n^4$ ?  (i) $(-4n^4)$ (ii) $9n^2$ (iii) $(-4)$ (iv) $4n^3$ (v) $3n$ 30. Which of the following terms can be added to $(-8l^2)$ ?  (i) $(-5l)$ (ii) $(-5l^2)$ (iii) $(-3l)^3$ (iv) $6l^4$ (v) $2l^2$ 31. Which of the following terms can be subtracted from $6a^3$ ?  (i) $a^4$ (ii) $(-4a)$ (iii) $6$ (iv) $(-9a^3)$ (v) $9a^2$ 32. Which of the following terms can be subtracted from $(-4a^2)$ ?  (i) $3l^3$ (ii) $3l^3$ (ii) $3l^3$ (iii) $3l^3$ (iv) $3l^3$ (iv) $3l^3$ (iv) $3l^3$ (iii) $3l^3$ (iii) $3l^3$ (iii) $3l^3$ (iii) $3l^3$ (iv) $3l^3$ (iv	
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<ul> <li>27. Which of the following terms can be subtracted from (-6u² v² t²)?  (i) 7t² u² v² (ii) 3tu² v (iii) (-9tuv²) (iv) 9t² u² v (v) (-3t² uv²)</li> <li>28. Which of the following terms can be subtracted from 9lm² k²?  (i) 4klm² (ii) 5kl² m (iii) (-k² lm²) (iv) 8klm (v) 9k² l² m²</li> <li>29. Which of the following terms can be added to 7n⁴?  (i) (-4n⁴) (ii) 9n² (iii) (-4) (iv) 4n³ (v) 3n</li> <li>30. Which of the following terms can be added to (-8j²)?  (i) (-5j) (ii) (-5j²) (iii) (-3j³) (iv) 6j⁴ (v) 2</li> <li>31. Which of the following terms can be subtracted from (6a³?  (i) a⁴ (ii) (-4a) (iii) 6 (iv) (-9a³) (v) 9a²</li> <li>32. Which of the following terms can be subtracted from (-4a²)?  (i) 3 (ii) 5a³ (iii) 5d (iv) (-5d²) (v) 6d⁴</li> <li>33. Which of the following terms can be added to (-5)?  (i) (-7f) (ii) (-9) (iii) fg (iv) (-5fgh) (v) h</li> <li>34. Which of the following terms can be added to 2b² c²?  (i) 3b (ii) (-3bc²d) (iii) (-7b²cd) (iv) 6b²c² (v) bc²d²</li> <li>35. Which of the following terms can be subtracted from (-9o)?  (i) q (ii) 6 (iii) 4o (iv) 9pq (v) (-6oq)</li> <li>36. Which of the following terms can be subtracted from 6s²t?</li> </ul>	26. Which of the following terms can be added to $(-7 onp^2)$ ?
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<ul> <li>31. Which of the following terms can be subtracted from 6a³? <ul> <li>(i) a⁴ (ii) (-4a) (iii) 6 (iv) (-9a³) (v) 9a²</li> </ul> </li> <li>32. Which of the following terms can be subtracted from (-4a²)? <ul> <li>(i) 3 (ii) 5a³ (iii) 5d (iv) (-5a²) (v) 6a⁴</li> </ul> </li> <li>33. Which of the following terms can be added to (-5)? <ul> <li>(i) (-7f) (ii) (-9) (iii) fg (iv) (-5fgh) (v) h</li> </ul> </li> <li>34. Which of the following terms can be added to 2b²c²? <ul> <li>(i) 3b (ii) (-3bc²d) (iii) (-7b²cd) (iv) 6b²c² (v) bc²d²</li> </ul> </li> <li>35. Which of the following terms can be subtracted from (-9o)? <ul> <li>(i) q (ii) 6 (iii) 4o (iv) 9pq (v) (-6oq)</li> </ul> </li> <li>36. Which of the following terms can be subtracted from 6s²t?</li> </ul>	30. Which of the following terms can be added to $(-8j^2)$ ?
(i) $a^4$ (ii) $(-4a)$ (iii) 6 (iv) $(-9a^3)$ (v) $9a^2$ 32. Which of the following terms can be subtracted from $(-4d^2)$ ? (i) 3 (ii) $5d^3$ (iii) $5d$ (iv) $(-5d^2)$ (v) $6d^4$ 33. Which of the following terms can be added to $(-5)$ ? (i) $(-7f)$ (ii) $(-9)$ (iii) $fg$ (iv) $(-5fgh)$ (v) $h$ 34. Which of the following terms can be added to $2b^2c^2$ ? (i) $3b$ (ii) $(-3bc^2d)$ (iii) $(-7b^2cd)$ (iv) $6b^2c^2$ (v) $bc^2d^2$ 35. Which of the following terms can be subtracted from $(-9o)$ ? (i) $g$ (ii) 6 (iii) $4o$ (iv) $9pg$ (v) $(-6og)$ 36. Which of the following terms can be subtracted from $6s^2t$ ?	(i) $(-5j)$ (ii) $(-5j^2)$ (iii) $(-3j^3)$ (iv) $6j^4$ (v) 2
<ul> <li>32. Which of the following terms can be subtracted from (-4 d²)?  (i) 3 (ii) 5 d³ (iii) 5 d (iv) (-5 d²) (v) 6 d⁴ </li> <li>33. Which of the following terms can be added to (-5)?  (i) (-7 f) (ii) (-9) (iii) fg (iv) (-5 fgh) (v) h</li> <li>34. Which of the following terms can be added to 2 b² c²?  (i) 3b (ii) (-3 bc² d) (iii) (-7 b² cd) (iv) 6 b² c² (v) bc² d²</li> <li>35. Which of the following terms can be subtracted from (-9 o)?  (i) q (ii) 6 (iii) 4o (iv) 9pq (v) (-6 oq)</li> <li>36. Which of the following terms can be subtracted from 6 s² t?</li> </ul>	31. Which of the following terms can be subtracted from $6a^3$ ?
(i) 3 (ii) $5a^3$ (iii) $5d$ (iv) $(-5a^2)$ (v) $6a^4$ 33. Which of the following terms can be added to $(-5)$ ?  (i) $(-7f)$ (ii) $(-9)$ (iii) $fg$ (iv) $(-5fgh)$ (v) $h$ 34. Which of the following terms can be added to $2b^2c^2$ ?  (i) $3b$ (ii) $(-3bc^2d)$ (iii) $(-7b^2cd)$ (iv) $6b^2c^2$ (v) $bc^2d^2$ 35. Which of the following terms can be subtracted from $(-9a)$ ?  (i) $a$ (ii) $a$ (iii) $a$ (iv)	(i) $a^4$ (ii) $(-4a)$ (iii) 6 (iv) $(-9a^3)$ (v) $9a^2$
<ul> <li>33. Which of the following terms can be added to (-5)?  (i) (-7f) (ii) (-9) (iii) fg (iv) (-5fgh) (v) h</li> <li>34. Which of the following terms can be added to 2b²c²?  (i) 3b (ii) (-3bc²d) (iii) (-7b²cd) (iv) 6b²c² (v) bc²d²</li> <li>35. Which of the following terms can be subtracted from (-9o)?  (i) q (ii) 6 (iii) 4o (iv) 9pq (v) (-6oq)</li> <li>36. Which of the following terms can be subtracted from 6s²t?</li> </ul>	32. Which of the following terms can be subtracted from $(-4d^2)$ ?
(i) $(-7f)$ (ii) $(-9)$ (iii) $fg$ (iv) $(-5fgh)$ (v) $h$ 34. Which of the following terms can be added to $2b^2c^2$ ?  (i) $3b$ (ii) $(-3bc^2d)$ (iii) $(-7b^2cd)$ (iv) $6b^2c^2$ (v) $bc^2d^2$ 35. Which of the following terms can be subtracted from $(-9o)$ ?  (i) $q$ (ii) $6$ (iii) $4o$ (iv) $9pq$ (v) $(-6oq)$ 36. Which of the following terms can be subtracted from $6s^2t$ ?	(i) 3 (ii) $5d^3$ (iii) $5d$ (iv) $(-5d^2)$ (v) $6d^4$
<ul> <li>34. Which of the following terms can be added to 2 b² c²?</li> <li>(i) 3b (ii) (-3bc²d) (iii) (-7b²cd) (iv) 6b²c² (v) bc²d²</li> <li>35. Which of the following terms can be subtracted from (-9o)?</li> <li>(i) q (ii) 6 (iii) 4o (iv) 9pq (v) (-6oq)</li> <li>36. Which of the following terms can be subtracted from 6s²t?</li> </ul>	33. Which of the following terms can be added to $(-5)$ ?
(i) $3b$ (ii) $(-3bc^2d)$ (iii) $(-7b^2cd)$ (iv) $6b^2c^2$ (v) $bc^2d^2$ 35. Which of the following terms can be subtracted from $(-9o)$ ?  (i) $q$ (ii) $6$ (iii) $4o$ (iv) $9pq$ (v) $(-6oq)$ 36. Which of the following terms can be subtracted from $6s^2t$ ?	(i) $(-7f)$ (ii) $(-9)$ (iii) $fg$ (iv) $(-5fgh)$ (v) $h$
<ul> <li>35. Which of the following terms can be subtracted from (-9 o)?</li> <li>(i) q (ii) 6 (iii) 4 o (iv) 9pq (v) (-6 oq)</li> <li>36. Which of the following terms can be subtracted from 6 s² t?</li> </ul>	34. Which of the following terms can be added to $2b^2c^2$ ?
(i) $q$ (ii) 6 (iii) 4 $o$ (iv) 9 $pq$ (v) (-6 $oq$ )  36. Which of the following terms can be subtracted from 6 $s^2t$ ?	(i) $3b$ (ii) $(-3bc^2d)$ (iii) $(-7b^2cd)$ (iv) $6b^2c^2$ (v) $bc^2d^2$
36. Which of the following terms can be subtracted from $6s^2t$ ?	
	(i) $q$ (ii) 6 (iii) 4 $o$ (iv) 9 $pq$ (v) (-6 $oq$ )
(i) $2r^2t$ (ii) $4rs^2$ (iii) $(-7t)$ (iv) $(-5rs^2t^2)$ (v) $(-4s^2t)$	36. Which of the following terms can be subtracted from $6s^2t$ ?
	(i) $2r^2t$ (ii) $4rs^2$ (iii) $(-7t)$ (iv) $(-5rs^2t^2)$ (v) $(-4s^2t)$

(i)  $(-8i^2jk)$  (ii)  $6ij^2k^2$  (iii)  $i^2jk^2$  (iv)  $4ijk^2$  (v)  $3i^2j^2k$ 

37. Which of the following terms can be added to  $2jik^2$ ?

38. Which of the following terms can be added to  $6 d^2 c^2 e$ ?

(i) 
$$6c^2de^2$$
 (ii)  $(-3cde^2)$  (iii)  $c^2d^2e^2$  (iv)  $(-3cd^2e)$  (v)  $(-c^2d^2e)$ 

39. Which of the following terms can be subtracted from  $7 mnl^2$ ?

(i) 
$$(-8/mn^2)$$
 (ii)  $(-7/^2m^2n^2)$  (iii)  $(-5/m^2n^2)$  (iv)  $(-5/^2mn)$  (v)  $(-9/m^2n)$ 

40. Which of the following terms can be subtracted from  $(-9pq^2o^2)$ ?

(i) 
$$7o^2p^2q$$
 (ii)  $9o^2pq$  (iii)  $(-8o^2pq^2)$  (iv)  $7op^2q$  (v)  $2o^2p^2q^2$ 

Assignment Key							
1) (ii)	2) (v)	3) (iii)	4) (i)	5) (iii)	6) (i)		
7) (v)	8) (iii)	9) (i)	10) (ii)	11) (iv)	12) (i)		
13) (ii)	14) (iv)	15) (iii)	16) (iv)	17) (iv)	18) (iii)		
19) (ii)	20) (iv)	21) (iii)	22) (i)	23) (iii)	24) (iii)		
25) (ii)	26) (i)	27) (i)	28) (iii)	29) (i)	30) (ii)		
31) (iv)	32) (iv)	33) (ii)	34) (iv)	35) (iii)	36) (v)		
37) (iv)	38) (v)	39) (iv)	40) (iii)				

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