Unit 0

Evaluate each expression

1) $\left(48-4^2\right)\div\left(19-3\right)$

2) $\left(8+4\right)^2+\left(16\div4\right)$

3) $\left(44-4^2\right)\div\left(20-6\right)$

4) $\left(54-6\right)\div3-3^2$

5) $5\cdot\left(10+4\right)-2^2$

6) $\left(55-5\right)\div2-5^2$

7) $5\cdot\left(13-2\right)+8^2$

8) $\left(12\cdot3-4^2\right)+3$

9) $\left(10-5\right)^2+\left(14\div7\right)$

10) $\left(2\cdot2+3^2\right)-7$

Evaluate each expression

1) $4-1$

2) $3-(-6)$

3) $6-3$

4) $-7-(-3)$

5) $8-(-7)$

6) $-8-5$

7) $-8-(-1)$

8) $-3-6$

9) $-9-(-4)$

10) $4-(-5)$

11) $-6-3$

12) $8-4$

Evaluate each expression

1) $2+5$

2) $3+(-3)$

3) $7+(-9)$

4) $3+2$

5) $-7+(-7)$

6) $-5+(-1)$

7) $-8+8$

8) $-3+6$

9) $9+7$

10) $-7+(-8)$

11) $-4+(-3)$

12) $4+(-8)$

Evaluate each expression

1) $f(x) = 22 - 2x^2$ when x =3

2) $f(x) = 2 \cdot 4x^2$ when x =2

3) $f(x) = 5x^2 + 2$ when x = 4

4) $f(x) = \frac{x}{5} + 3 \cdot 2$ when x = 5

5) $f(x) = \frac{x-1}{5}$ when x = 16

6) $f(x) = \frac{3x-7}{5}$ when x = 9

Graph the numbers on a number line and then write the numbers in increasing order

A) -5, 1, -6

B) -2.2, -0.2, -2

$C) -\frac{1}{6}, -\frac{2}{5}, -\frac{3}{8}$

Write the numbers in decreasing order

D) -3.7, -3.07, 0.37, -3.75

$E) -\frac{1}{2}, -\frac{3}{2}, -\frac{2}{3}, -\frac{1}{3}$

Evaluate the expression

$F) \left|-\frac{1}{2}\right|$

G) $|-20|$

H) $-|-7.2|$

I) $-|7.2|$

Combine like terms to simplify the expression

1. $-4x+5x$

2. $1+5x+x-6$

3. $4x+4+1+3x$

4. $11x+11x$

5. $-2x - 8 - 7x + 2$

6. $7x + 6x$

7. $-8x - 10x$

8. $6 - 7x - 2x - 8$

9. $2x - x$

10. $9x + 3x$

11. $9x + 3x$

12. $12x + 11 - 4$

Use the distributive property to simplify the expression

13. $3(-7-8x)$

14. $-8(1+5x)$

15. $8(x+1)$

16. $8(7x+8)$

17. $2(6x-8)$

18. $-3(8-x)$

19. $-5(8x-2)$

20. $-2(x-5)$

21. $-(3x-3)$

22. $-2(7-2x)$

23. $-8(5-3x)$

24. $-7(6x-3)$

Use the distributive property and combining like terms to simplify the expression

25. $-x+4(x+1)$

26. $-3(1-3x)+2x$

27. $-2(-3x+4)-7$

28. $-3x-(-8+4x)$

29. $-4+6(-4x+3)$

30. $3x+3(1+8x)$

31. $-2+5(4+3x)$

32. $-1+3(x+4)$

33. $-(-x+2)-2x$

34. $-3(5+2x)-7$