

Third exam for MTHO3

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Print Name: _____

1. Evaluate each expression:

A. $(-7) + 4$

B. $(-4) - (-3)$

C. $(-8)(4)$

D. $(-65) \div (-5)$

E. -8^2

2. Evaluate each expression:

A. $(7 - 3)^2$

B. $\frac{-6 - 4}{2 - (-3)}$

3. Evaluate: $3x^2 - 2x + 5$ when $x = -2$.

4. Given $F = \frac{9}{5}C + 32$, find F when $C = 25$

5. Simplify: $\frac{-10x^8y^5}{5x^7y^3}$.

6. Simplify: $2x^3 + (5x)^2(2x)$

7. Add $(-2x^2 + 3x - 7)$ and $(5x^3 - 8x^2 + 4)$

8. Subtract $(2x^2 - 5x + 7)$ from $(2x - 6)$

9. Multiply and simplify: $(3x - 2)(5x + 4)$

10. Divide and simplify: $\frac{10x^5 - 5x^5}{5x^5}$

11. Solve $3x - 5 + 6x = -2$ for x .

12. Solve $2 - x = -4(x + 4)$ for x

13. Factor completely: $x^2 - 11x + 18$

14. Factor completely: $4x^2 - 9$

15. Factor completely: $3x^2 - 18x$

16. Find the slope of the line containing the points $(1, -2)$ and $(3, -4)$.

17. Solve: $\frac{x+1}{3} = \frac{x}{5} - \frac{7}{15}$.

18. Solve the system:
$$\begin{cases} x - 3y = 17 \\ 2x + y = 6 \end{cases}$$

19. Solve the system:
$$\begin{cases} 3x - 4y = -1 \\ 2x + 3y = 5 \end{cases}$$

20. Graph the line with equation $y = -2x + 1$ in the grid below

