

ELEMENTARY ALGEBRA PRACTICE FINAL EXAM

1. Solve: $\frac{1}{3}(13w + 7) = -2$

- A. $w = \frac{1}{13}$ B. $w = -\frac{1}{13}$ C. $w = 5$ D. $w = 1$ E. none of these

2. Find the product: $(-x^3yz)(-4x^3y^2z)$

- A. $4x^9y^2z$ B. $4x^6y^3z$ C. $4x^6y^3z^2$ D. $4x^6y^2z^2$ E. none of these

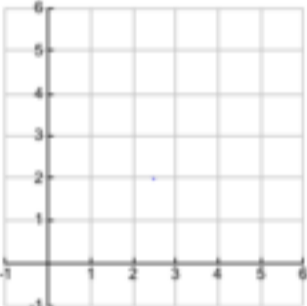
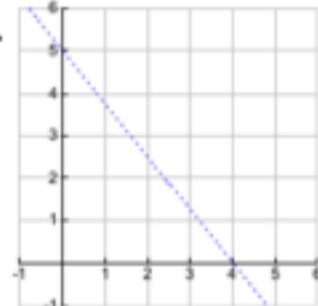
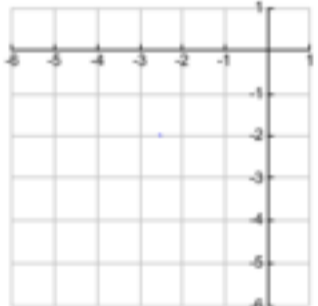
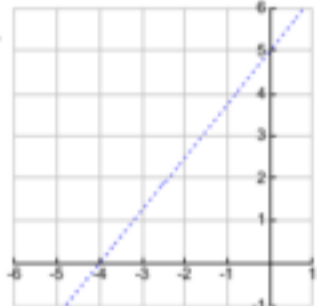
3. Factor completely: $5x + 5y + zx + zy$

- A. $(5+x)(z+y)$ B. $(5+y)(x+z)$ C. $5(x+y) + z(x+y)$ D. $(5+z)(x+y)$ E. none of these

4. Subtract and simplify: $\frac{3x-2}{x} - \frac{3x}{x-3}$

- A. $\frac{-11x+6}{x(x-3)}$ B. $\frac{-11x}{x(x-3)}$ C. $\frac{6x^2-11x+6}{x(x-3)}$ D. $\frac{11x+6}{x(x-3)}$ E. none of these

5. Graph the equation: $4x + 5y = 20$

- A.  B.  C.  D.  E. none of these

6. Simplify (assume all variables are positive numbers): $-\sqrt{25x^6y^4}$

- A. $5x^3y^2$ B. $\pm 5x^3y^2$ C. $-5x^3y^2$ D. $-5\sqrt{x^3y^2}$ E. none of these

7. Simplify: $\frac{3x^2 - 7x + 2}{x^2 - 3x + 2}$

- A. $3x + \frac{7}{3}$ B. $\frac{3x-1}{x-1}$ C. $\frac{x-1}{x-2}$ D. $\frac{3x+1}{x+1}$ E. none of these