

Practice Test 1 Answers

1. A. $35am^{14}n^4$

B. $\frac{64g^{42}}{9f^8}$

2. 92

3. $x = 3$

4. A. $y = -\frac{3}{7}x + 2$ or $y + 1 = -\frac{3}{7}(x - 7)$ or $y - 5 = -\frac{3}{7}(x + 7)$

B. parallel slope = $-\frac{3}{7}$

C. perpendicular slope $\frac{7}{3}$

5. Slope $m = -\frac{5}{6}$

a. $y - 2 = -\frac{5}{6}(x + 4)$ or $y + 13 = -\frac{5}{6}(x - 14)$

b. $y = -\frac{5}{6}x - \frac{4}{3}$

6. $(x, y) = (-4, 8)$

7. $(x, y) = (-7, -5)$

8. A. $8x^2 - 11xy + 15x + 2y + 9$

B. 131

9. $-3x^3 + 13x^2 - 89x + 175$

10. A. $-9a^3 - 8a^{12}b^{15} + 1$

B. $x^2 - 5x + 3$ or $x^2 - 5x + 3 + \frac{3}{x+2}$