

Cumulative Review Chapters 3–4

Tell whether each equation has one solution, no solution, or an infinite number of solutions. Show your work. (Lesson 3.2)

$$9 \quad 3x - 2 = -3\left(\frac{2}{3} - x\right)$$

$$10 \quad 3x + 6 = -2\left(\frac{3}{2} - x\right)$$

$$11 \quad 5(6a - 6) + 40 = 3(10a - 7) + 31$$

$$12 \quad 3x + 7 = -8\left(\frac{3}{4} - x\right)$$

$$13 \quad \frac{1}{4}(2x - 1) = \frac{1}{2}x + \frac{3}{8}$$

$$14 \quad \frac{1}{8}x + 6 = \frac{1}{16}(2x - 96)$$

Find the value of y when $x = 4$. (Lesson 3.3)

$$15 \quad 2x - 1 = \frac{1}{2} + y$$

$$16 \quad \frac{1}{4}(2y - 1) = 0.6 + \frac{5x}{8}$$