

Geometry Review Sections 8.1/8.2 Proportions

Solve each:

$$1) \frac{x}{3} = \frac{2x}{7}$$

$$2) \frac{x+1}{3} = \frac{2x-4}{5}$$

$$3) \frac{2n-3}{5} = \frac{n+2}{6}$$

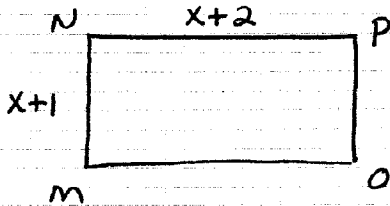
$$4) \frac{4w-3}{2w-1} = \frac{7}{3}$$

$$5) \frac{1}{4} = \frac{x+3}{4x+12}$$

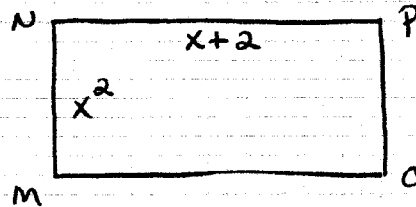
$$6) \frac{x}{2} = \frac{3}{x+5}$$

Find x:

$$7) MN:NP \text{ is } 2:7$$



$$8) MN:NP \text{ is } 1:1$$



Given $\frac{c}{d} = \frac{e}{f}$. True/False

$$9) \frac{d}{c} = \frac{f}{e}$$

$$10) ce = df$$

$$11) \frac{c+a}{d} = \frac{e+a}{f}$$

$$12) \frac{cz}{d} = \frac{ez}{f}$$

Answers:

$$1) x = 0$$

$$2) x = 17$$

$$3) n = 4$$

$$4) w = -1$$

$$5) \forall \mathbb{R}$$

$$6) x = \{1, -6\}$$

$$7) x = -\frac{3}{5}$$

$$8) x = \{-1, 2\}$$

$$9) \text{true}$$

$$10) \text{false}$$

$$11) \text{false}$$

$$12) \text{true}$$