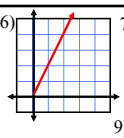
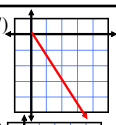
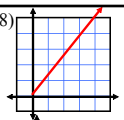
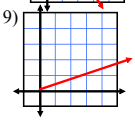
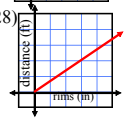
1) linear, direct variation
2) quadratic
3) linear
4) linear
5) linear, direct variation

6) 

7) 

8) 

9) 

28) 

10) $k = \frac{1}{2}$
11) $k = \frac{4}{3}$
12) $k = \frac{3}{5}$
13) $k = \frac{7}{15}$
14) $l = k \cdot h$
15) $l = k \cdot m$
16) $e = k \cdot m$
17) $k = \frac{3}{4} = 0.75$
18) $k = \frac{1}{3} = 0.333$
19) $k = -\frac{5}{3} = -1.667$
20) $t = k \cdot T$ or $h = k \cdot C$
21) $y = 5x$
22) $k = \frac{11}{19} p$
23) $d = 60t$
24) 56
25) 105
26) -66
27) $d = \frac{2}{3} r$
29) about 495 rotations
30) False
31) True
32) True
33) False
34) ?

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4) $4y + 2 = 3x$

$4y + 2 - 2 = 3x - 2$

$\frac{4y}{4} = \frac{3}{4}x - \frac{2}{4}$

$y = \frac{3}{4}x - \frac{1}{2}$

Linear

5) $3x - 8y = 0$

$3x - 3x - 8y = -3x + 0$

$\frac{-8y}{-8} = \frac{-3x}{-8}$

$y = \frac{3}{8}x$

Direct Variation + Linear

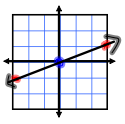
9) $3x - 9y = 0$

$3x - 9y + 9y = 0 + 9y$

$\frac{3x}{9} = \frac{9y}{9}$

$\frac{1}{3}x = y$

$m = \frac{1}{3}$ $b = 0$



12) $y = \frac{3}{5}x$

$k = \frac{3}{5}$

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24) $d = kr$

$\frac{12}{18} = \frac{k18}{18}$

$\frac{2}{3} = k$

$d = \frac{2}{3}r$

26) $d = \frac{2}{3}r$ 1 mi = 5280 ft

$d = \frac{2}{3}(16)$

$d = 10.667$ ft.

$\frac{5280 \text{ ft}}{10.667} = 494.985$

$\approx$ 495 rotations.

22) $p = kq$

$\frac{24}{56} = \frac{k56}{56}$

$\frac{3}{7} = k$

$p = \frac{3}{7}q$

$(45 = \frac{3}{7}q)7$

$\frac{315}{3} = \frac{3q}{3}$

$105 = q$