

[1] $12\frac{1}{2}$ miles

(a) $\frac{5}{17}$

[2] (b) $\frac{25}{81}$

[3] 208 nickles and 168 quarters

[4] 22, 24, 26, 28

[5] $h = \frac{ry}{xy-1}$

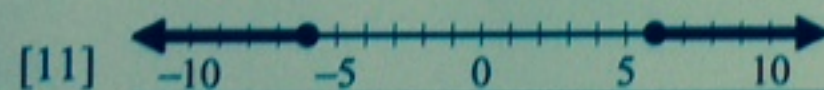
[6] $h = \frac{bx + jxy}{y}$

[7] -6

[8] -2

[9] $\frac{3(d+5)}{(d-4)(d+4)}$

[10] $\frac{9x^2 - 38x}{(x-2)(x-4)}$



[12] 0

(a) rational, integers

[13] (b) rational

[14] $\frac{4096}{3x^{15}y^{-28}z^{17}}$

[15] 5, -4

[16] (a) $a = 24$ (b) $b = 12$ (c) $c = 13$

[17] -3

[18] $5\sqrt{5}$

(a) $h(x) = x^2 + 4$ (b) $f(x) = 4 - |x|$ (c) $j(x) = \sqrt{x}$ (d) $g(x) = 2 - x^3$ (e)

[19] $k(x) = 2 - x$

[20] 24

[21] $(30 - 4\pi) \text{ in.}^2$