

October 11, 2016

3.3
#15)

$$m = \frac{(14) - (2)}{(9) - (1)} = \frac{12}{8} = \frac{3}{2}$$

Oct 11-9:06 AM

(-9, 5) and (7, -10)

①

② $m = \frac{(-10) - (5)}{(7) - (-9)} = \frac{-15}{16}$

③ $y = mx + b$
 $(5) = -\frac{15}{16}(-9) + b$
 $16(5) = \frac{135}{16} + b$
 $80 = \frac{135}{16} + b$
 $-55 = \frac{135}{16} - 80$
 $-55 = \frac{135 - 1280}{16}$
 $-55 = \frac{-1145}{16}$
 $-55 = -7.15625$ ✓

④ $y = -\frac{15}{16}x - \frac{55}{16}$ ✓

⑤ $-10 = -\frac{15}{16}(7) - \frac{55}{16}$
 $= -\frac{105}{16} - \frac{55}{16}$
 $= \frac{-105 - 55}{16}$
 $= \frac{-160}{16}$
 $-10 = -10$ ✓

Oct 11-9:11 AM

$(-\frac{7}{8}, 5)$ and $(\frac{1}{2}, 8)$

①

② $m = \frac{(8) - (5)}{(\frac{1}{2}) - (-\frac{7}{8})} = \frac{3}{\frac{4+7}{8}} = \frac{3}{\frac{11}{8}} = \frac{24}{11}$

③ $5 = \frac{24}{11}(-\frac{7}{8}) + b = \frac{3}{8} = \frac{3}{8}$
 $5 = -\frac{21}{11} + b$
 $55 = -21 + 11b$
 $76 = 11b$
 $\frac{76}{11} = b$

④ $y = \frac{24}{11}x + \frac{76}{11}$ ✓

⑤ $8 = \frac{24}{11}(\frac{1}{2}) + \frac{76}{11}$
 $8 = \frac{12}{11} + \frac{76}{11}$
 $8 = \frac{88}{11}$
 $8 = 8$ ✓

Oct 11-9:19 AM

3.1 ✓
 3.3 ✓
 3.4 Complete

Oct 11-9:44 AM

5.1 Functions

* Relation: a collection of ordered pairs

e.g.

$$R = \{(5, -6), (2, -3), (0, 1)\}$$

Oct 11-9:45 AM