

$$\textcircled{1} \quad 3 \left(2x - \frac{4}{3} \right) = \frac{4}{3} y \cdot 3$$

$$\frac{6x}{4} - \frac{4}{4} = \frac{4y}{4}$$

Two Step
UNDO
 $\frac{4}{3}$

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

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

$$mx + b = y$$

$$\frac{3}{4} \left(2x - \frac{4}{3} \right) = \frac{4}{3} y \cdot \frac{3}{4}$$

ONE
STEP

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

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

Geometry

TUESDAY
10-16-12

CLASS
NOTES

$$\textcircled{2} \quad \begin{array}{r} \downarrow \\ -5y - 5 = -4x \\ +5 \quad +5 \end{array}$$

$$\frac{-5y}{-5} = \frac{-4x + 5}{-5}$$

$$y = \frac{4}{5}x - 1 \quad \boxed{m = \frac{4}{5}}$$

Barley Morton

$$\textcircled{3} \quad \begin{array}{r} -3y - x = 0 \\ +x \quad +x \end{array}$$

$$\begin{array}{r} \downarrow \\ -3y = x \\ -3 \quad -3 \end{array}$$

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

$$\boxed{m = -\frac{1}{3}}$$

Jay Williams

$$\textcircled{4} \quad y = -2 + 2x$$

$\uparrow$
m

$$\boxed{m = 2}$$

⑨ $(7, -1), (10, -12)$

$$m = \frac{-11}{3}$$

$$= \frac{-12 + 1}{10 - 7}$$

Neil Batten

⑩ $(-6, -13), (12, -18)$

$$\frac{-18 - (-13)}{12 - (-6)} = \frac{-5}{18} = m$$

Julie Owens

⑪ $(11, 20), (-11, -15)$

$$\frac{-15 - 20}{-11 - 11} = \frac{-35}{-22} = \frac{35}{22} = m$$

Marcus Chavez

⑫ $(-18, 7), (2, 5)$

$$\frac{5 - 7}{2 - (-18)} = \frac{-2}{20}$$

Adelino Bann

$$\textcircled{13} \quad 0 = -2\overset{\downarrow}{y} + 4x - 6$$

$$m_{//} = ?$$

$m_{//}$ parallel slope
 $m_{\perp}$ perpendicular slope

$$\frac{2\overset{\downarrow}{y}}{2} = \frac{4x}{2} - \frac{6}{2}$$

$$y = 2x - 3$$

$$\uparrow$$

$$m = 2$$

$$\therefore \boxed{m_{//} = 2}$$

$$\textcircled{EX} \quad m_{\perp} = -\frac{1}{2}$$

$$\textcircled{14} \quad 0 = -x - 3y - \cancel{12}$$

$$\quad \quad \quad +12 \quad \quad \quad +12$$

$$12 = -x - \cancel{3y}$$

$$+3y \quad \quad \quad +3y$$

$$3y + \cancel{12} = -x$$

$$\quad \quad \quad -12 \quad \quad \quad -12$$

$$\frac{3y}{3} = \frac{-x - 12}{3}$$

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

$$\boxed{m_{//} = -\frac{1}{3}}$$

Cody Chambers

$$\textcircled{16.} \quad -6 - 3y = 3x \quad m_{\perp} = ?$$

$\begin{array}{ccc} & +3y & -3x \\ & & \end{array}$

$$\frac{-3x - 6}{3} = \frac{3y}{3}$$

$$-1x - 2 = y$$

$$m = -1$$

$$1$$

$$m_{\perp} = 1$$

Ex: (Lisswell vs ...)

$$\textcircled{17.} \quad y = x - 3$$

Mago: D

$$m = 1 \therefore m_{\perp} = -1$$

$$\textcircled{18.} \quad \begin{array}{r} 6 + 3y = -5x \\ -6 \end{array}$$

OB

$$3y = -5x - 6$$

$$y = -\frac{5}{3}x - 2$$

$$m_{\perp} = \frac{3}{5} \quad \checkmark$$

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

$$6x - 4 = 4y$$

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

$$\boxed{m = \frac{3}{2}}$$

$$m_{//} = \frac{3}{2}$$

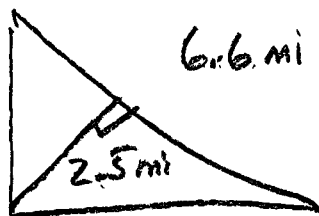
$$m_{\perp} = -\frac{2}{3}$$

$$\frac{3}{4} \left(2x - \frac{4}{3} \right) = \frac{4}{3}y \cdot \frac{3}{4}$$

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

$$\boxed{m = \frac{3}{2}}$$

(37)



$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(6.6)(2.5) = \boxed{8.25 \text{ mi}^2}$$

$$\begin{array}{r} 33 \\ \times 25 \\ \hline 165 \\ 66 \\ \hline \end{array}$$

(44)

$$(6, -2), (3, 7)$$

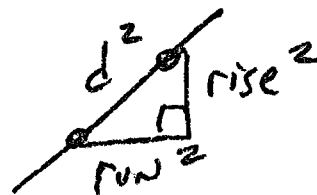
$$M\left(\frac{6+3}{2}, \frac{-2+7}{2}\right) =$$

$$\boxed{\left(\frac{9}{2}, \frac{5}{2}\right)}$$

$$\left(4\frac{1}{2}, 2\frac{1}{2}\right)$$

$$(4.5, 2.5)$$

(40) $(-6, -3), (-4, -5)$



$$\text{rise}^2 = (-5 + 3)^2 = 4$$

$$\text{run}^2 = (-4 + 6)^2 = 4$$

$$d^2 = 8$$

$$d = \sqrt{8}$$

$$\frac{4}{9}$$

$$d = \sqrt{4 \cdot 2}$$

$$\boxed{d = 2\sqrt{2}}$$

(41) $C = 2\pi r$

$$\boxed{C = 2\pi(5) = 10\pi \text{ m}}$$

(39) $A = \pi r^2$

$$\boxed{A = \pi(8)^2 = 64\pi \text{ ft}^2}$$

(43) $(-1, 5), (4, 8)$

$$M\left(\frac{4+(-1)}{2}, \frac{8+5}{2}\right)$$

$$M\left(\frac{3}{2}, \frac{13}{2}\right)$$

or $\left(1\frac{1}{2}, 6\frac{1}{2}\right)$
 $(1.5, 6.5)$

① $\frac{3}{4}(2x - \frac{4}{3}) = \frac{4}{3} \cdot \frac{3}{4} \quad m = ?$

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

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

$$m_{||} = \frac{3}{2}$$

$$m_{\perp} = -\frac{2}{3}$$

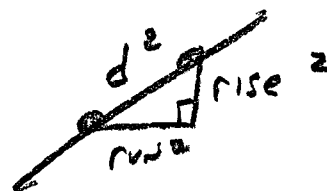
② $-5y - 5 = -4x$

$$\frac{-5y}{-5} = \frac{-4x + 5}{-5}$$

$$y = \frac{4}{5}x - 1$$

$$\therefore m = \frac{4}{5}$$

(48) $(-6, -3), (-4, -5)$



$$\text{rise}^2 = (-5 + 3)^2 = (-2)^2 = 4$$

$$\text{run}^2 = (-4 + 6)^2 = (2)^2 = 4$$

$$d^2 = 8$$

$$d = \sqrt{8}$$

$$d = \sqrt{4} \sqrt{2}$$

$$d = 2\sqrt{2}$$

(EX) $\sqrt{10} = \sqrt{2} \sqrt{5}$

$$\begin{array}{r} 1. \\ 4. \\ 9. \quad 3 \\ \hline 16 \quad 4 \end{array}$$

(72)

$$\begin{array}{r} 4x - 4 + 78 = 13x + 2 \\ -4x \quad -2 \quad -4x - 2 \end{array}$$

$$\frac{72}{9} = \frac{9x}{9}$$

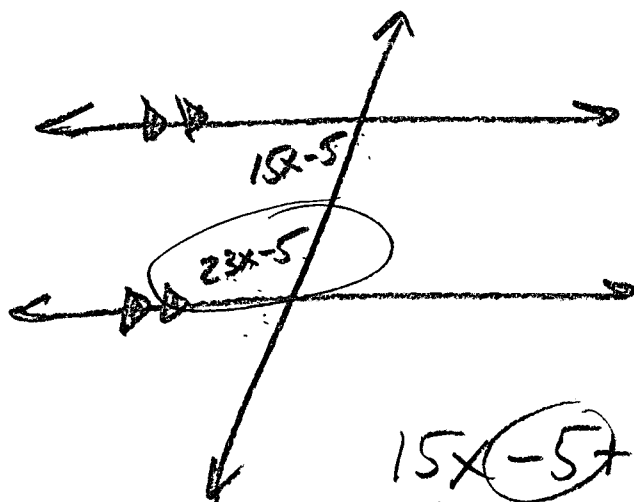
$$8 = x$$

$$\angle V = 4x - 4$$

$$= 4(8) - 4$$

$$m\angle V = 28^\circ$$

(55)



$$15x - 5 + 23x - 5 = 180$$

$$38x - 10 = 180$$

$$38x = 190$$

$$x = \frac{190}{38}$$

$$\angle = 23(5) - 5$$

$$\angle = 110^\circ$$

$$x = 5$$