
$\begin{aligned} & \text { a. } A(-4,1), B(3,-1), C(2,2), D(0,9) \quad m_{\overline{\cos }}=\frac{\Delta y}{\Delta x}=\frac{-1-1}{3--4}=\frac{-2}{7} \quad \text { neithern }\end{aligned} \quad \frac{q-2}{0-2}=\frac{7}{-2}$
b. $A(1,-3), B(4,5), C(1,-1), D(-7,2)$
$m_{A B}=\frac{5--3}{4-1}=\frac{8}{3}$
$m_{\bar{D}}=\frac{2-1}{-701}=\frac{3}{8}$


4.) Write an equation in slope intercept form for the line that satisfies the given conditions.

$$
\begin{aligned}
& \begin{array}{c}
m=4,4, \text { rineregep }=3 \\
y=m x+b \\
y=4 x+-3
\end{array}
\end{aligned}
$$

5.) Write an equation in point-slope form for the line that satisfies the given conditions.

$$
\begin{aligned}
& \text { sore }=m_{13,}, \operatorname{comanans} x_{2} y_{1} y_{1} \quad y-y_{1}=m\left(x-x_{1}\right) \\
& y--5=\frac{1}{3}(x-2) \\
& y+5=\frac{1}{3}(x-2)
\end{aligned}
$$


8.) Mrs. Belmore writes computer manuals. She charges $\$ 75$ to review writing specifications plus $\$ 40$ per hour $\mathbf{h}$ to write the manual. Which equation represents the total fee $\mathbf{F}$ that Mrs. Belmore earns for writing each computer manual?
a. $F=40(h+75)$

$$
\text { b. } F=40 h+75
$$

c. $F+75=40 h$
d. $40 \mathrm{~F}=\mathrm{h}+75$

