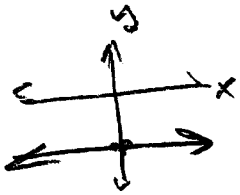
Algebra 1 FRIDAY 1-4-13 CLASS NOTES

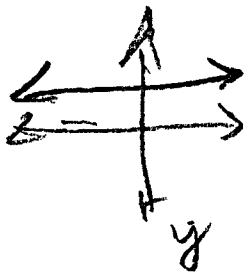
(Ex) $y = \frac{3}{4}x - 2$ (A)



$y = -7$ (B)

(B) // (D)
$m = 0$

$y = -\frac{3}{4}x + 1$ (C)



$y = 4$ (D)

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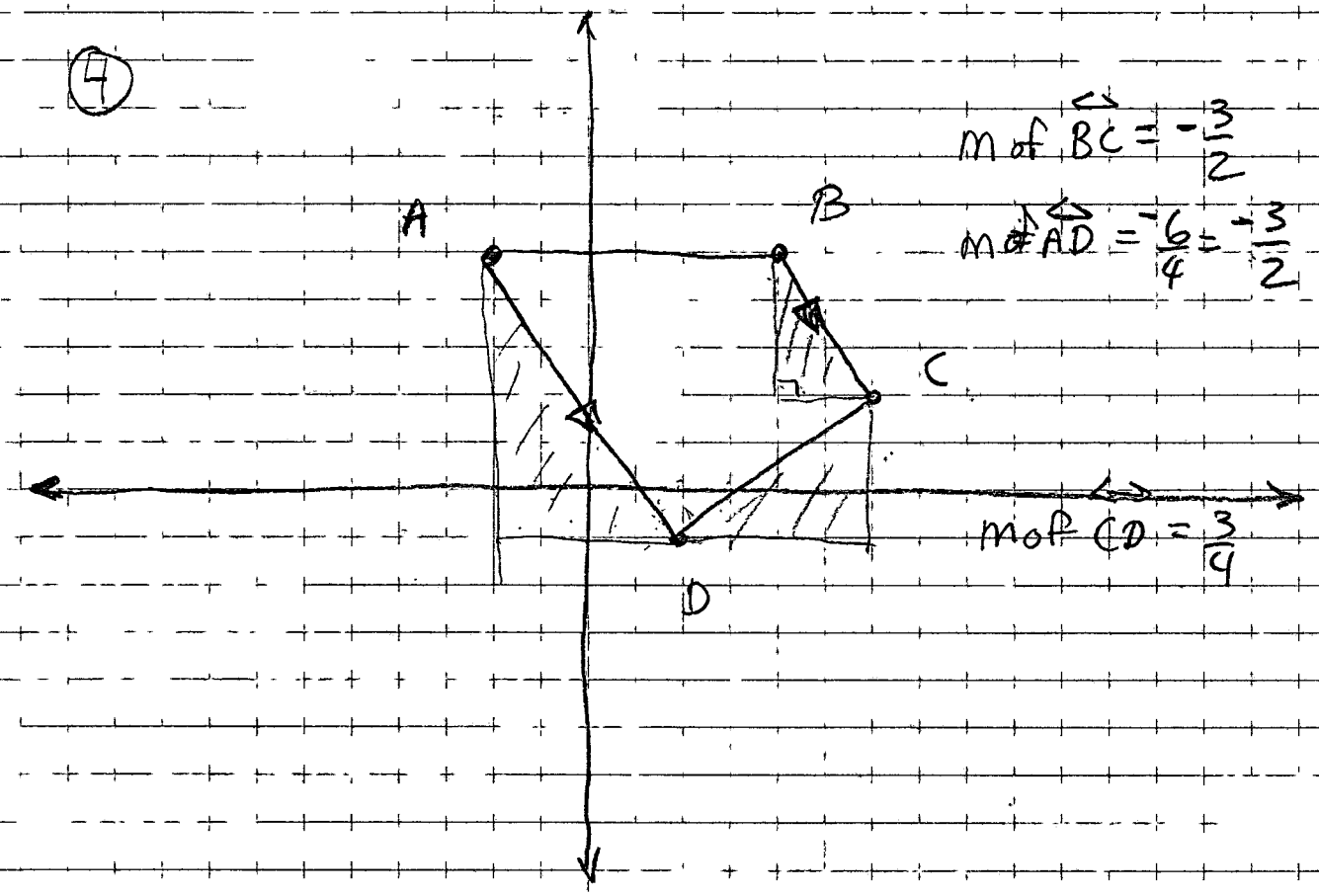
(5) $y - 4 = -2(x + 2)$

$y - 4 = -2x - 4$

$+4 \qquad +4$

$y = -2x$ $m = -2$ // $y = -2x$

④



m of $\overleftrightarrow{BC} = -\frac{3}{2}$

m of $\overleftrightarrow{AD} = \frac{-6}{4} = -\frac{3}{2}$

m of $\overleftrightarrow{CD} = \frac{3}{4}$

⑤

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

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

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

opp. recip. ∴ 1

$y = -1$

horiz ∴ 1

$x = 3$

vert

(6) $y = \frac{-3}{7}x - 4$ (A)

$y - 4 = -7(x+2)$

$y - 4 = -7x - 14$

$y = -7x - 10$ (B)

$y - 1 = \frac{1}{7}(x - 4)$ (B & C) (1)

$y - 1 = \frac{1}{7}x - \frac{4}{7}$

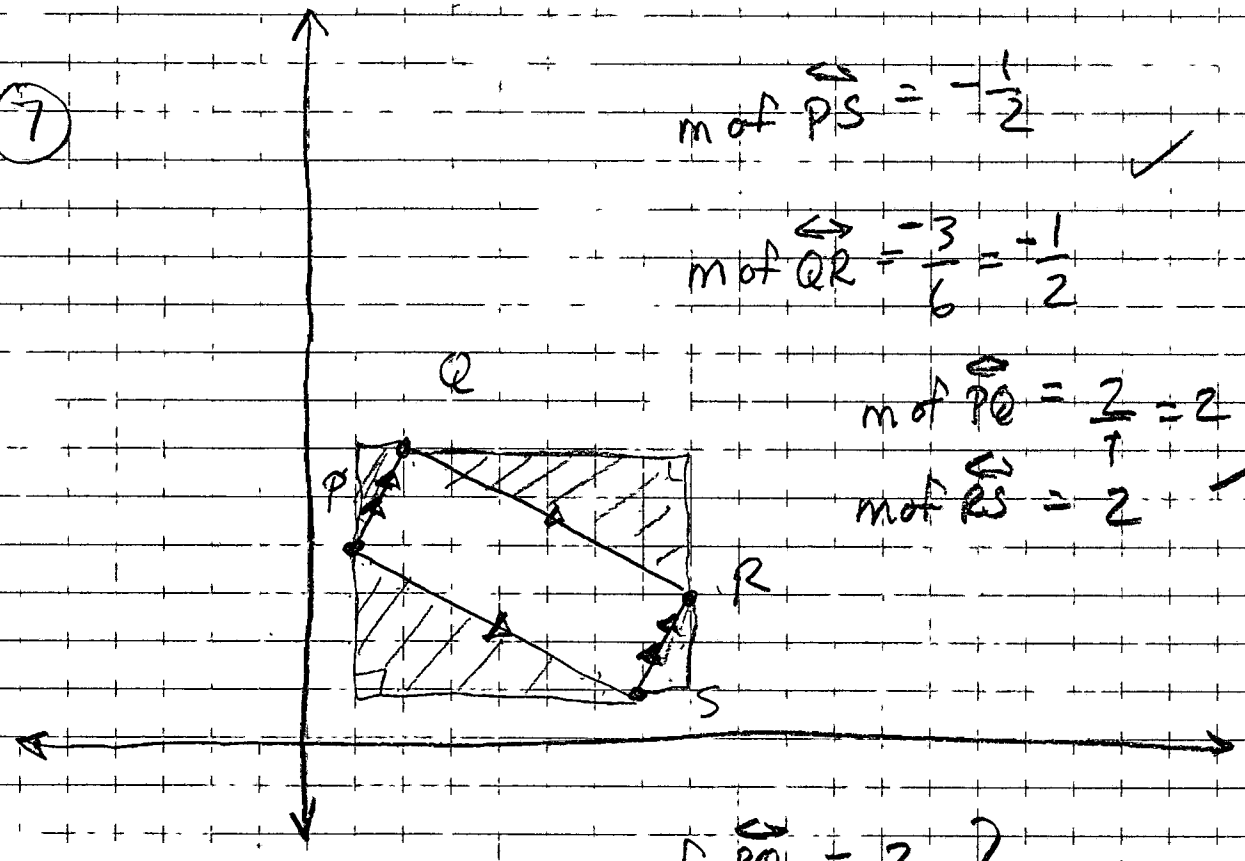
$y = \frac{1}{7}x + \frac{3}{7}$ (C)

$y - 7 = \frac{7}{3}(x - 3)$

$y - 7 = \frac{7}{3}x - 7$

$y = \frac{7}{3}x$ (6) (A & D) (1)

(7)



m of $\overleftrightarrow{PS} = -\frac{1}{2}$ ✓

m of $\overleftrightarrow{QR} = \frac{-3}{6} = -\frac{1}{2}$

m of $\overleftrightarrow{PQ} = \frac{2}{1} = 2$

m of $\overleftrightarrow{RS} = 2$ ✓

m of $\overleftrightarrow{PQ} = 2$

m of $\overleftrightarrow{QR} = -\frac{1}{2}$

$\therefore \perp$

$\therefore$ RECTANGLE

$\downarrow$

Therefore

(8) EOL in S-I Form $\Rightarrow y = mx + b$

through $(5, 0)$ * (x, y)

$\perp$ to $y = -\frac{5}{2}x + b$

* $m_{\perp} = \frac{2}{5}$

$y = mx + b$ (0 under y, 5 under x)

$0 = \frac{2}{5} \cdot 5 + b$

$0 = 2 + b$

$-2 \quad -2$

$-2 = b$

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