7-1-19

Sec 3.3

(45.) $5x - 3y = 180$

$x = 0$: y-INT.

$50 - 3y = 180$

$-3y = 180$

$3y = -180$

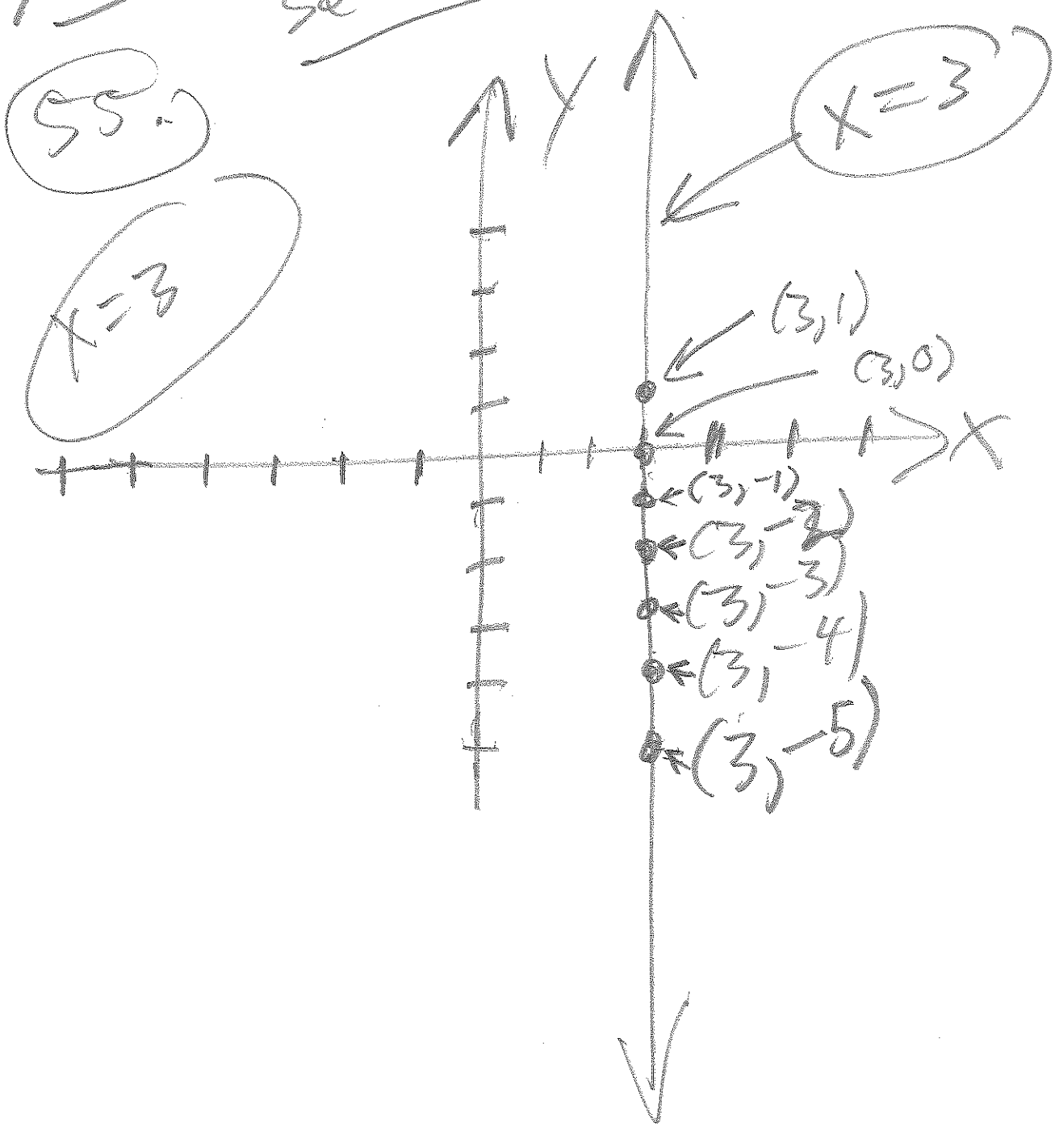
$\frac{3y}{3} = \frac{-180}{3}$

$y = -60$

Pg 1-19

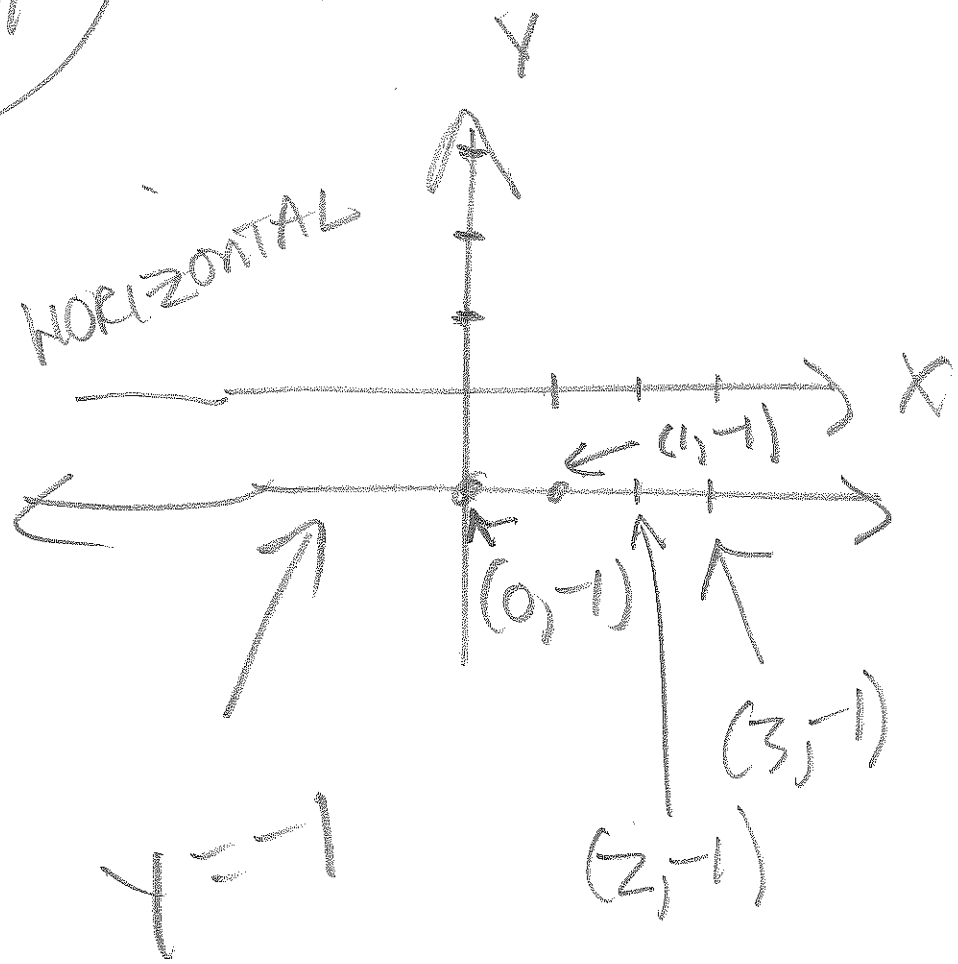
Sec 3.3

(55.)

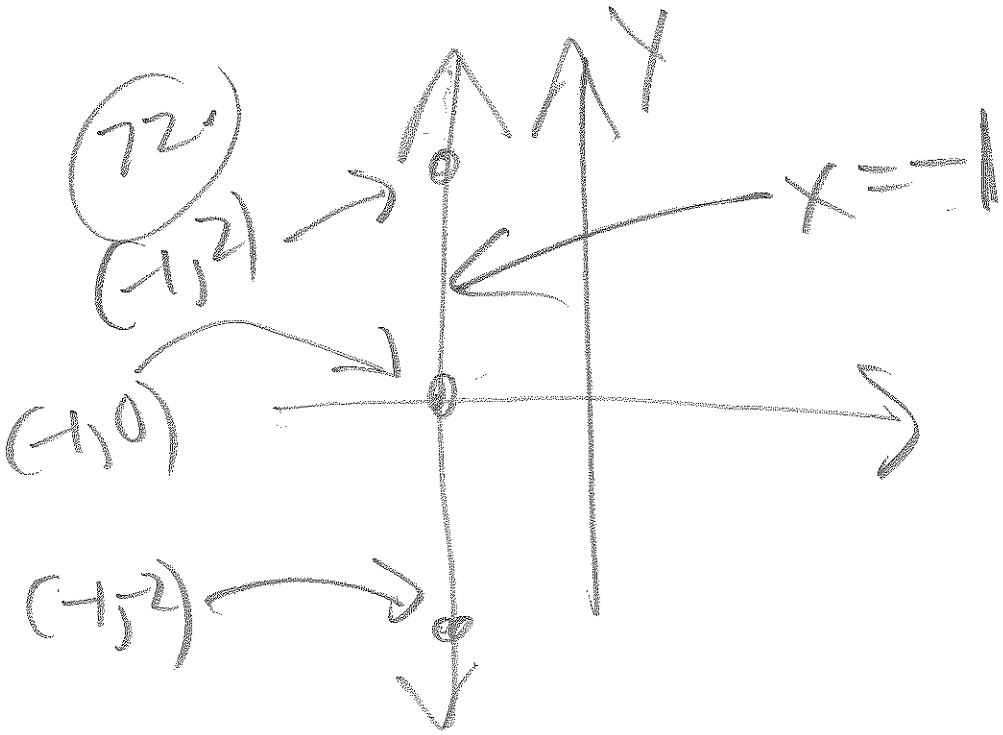


Sec 2.3

71.

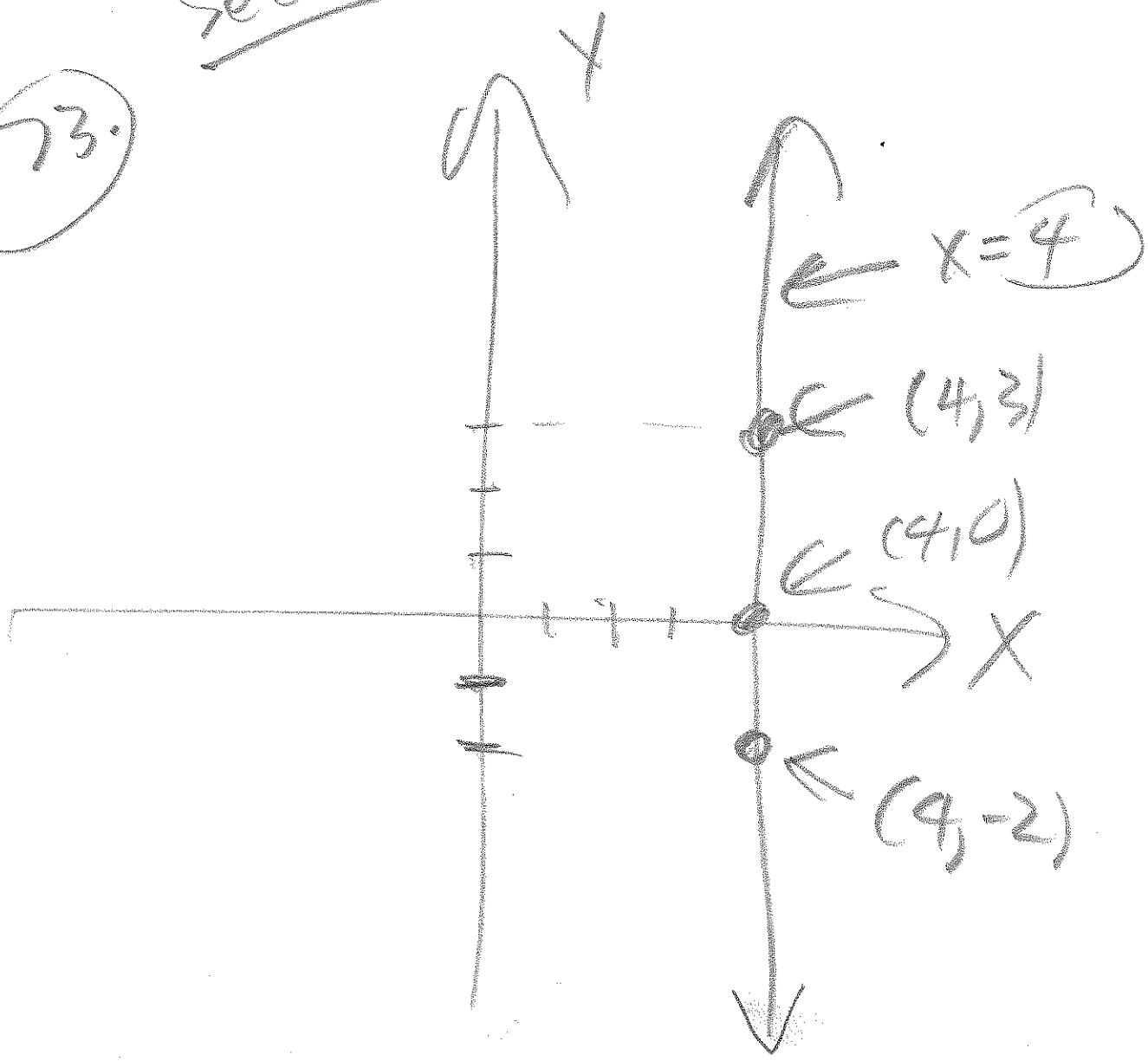


72.



See 3.3

(3.)



See 3.4 (6) $\frac{118.00\text{¢}}{390\text{ mi}}$

$\Rightarrow 30.25\frac{\text{¢}}{\text{mi}} = \frac{30\text{¢}}{\text{mi}}$

Sec 3.4 comment

#10

rate = $30.25 \frac{¢}{mi}$ = answer.

rounded: $30 \frac{¢}{mi}$

IF rate is used in a calculation*, use

$30.25 \frac{¢}{mi}$ (don't round*)

Example: I TRAVEL 5 mi.

HOW MUCH?

$30.25 \frac{¢}{mi} \cdot (5 mi)$

$= 151.25¢ = 151¢$

ROUND AT LAST STEP

Sec 3.4

9. ©

$\frac{\$15}{14\text{ mi}} = \frac{\$1.07}{\text{mi}} = \frac{1.07¢}{\text{mi}}$

$\frac{1}{100}$ place ↓ ¢ place ↓

$\frac{1}{100}\$ = 1¢$

$$
\begin{array}{r}
1.071 \\
14\overline{)15.0000} \\
-14\downarrow\downarrow \\
\hline
100 \\
-98\downarrow \\
\hline
20 \\
-14\downarrow \\
\hline
70
\end{array}
$$

Triangle Example from sec. 2.5: for Test 1

$x + y + z = 180$ ← given

$y = 2x$ ← given

$z = x + 20$

$x + 2x + x + 20 = 180$

$4x + 20 = 180$ ← isolate

$-20 \quad -20$

$4x = 160$ ← isolation complete.

$\frac{4x}{4} = \frac{160}{4}$ ← solve.

$x = 40$

$y = 80 - 2x$

$z = 60$

$= x + 20$

$40 + 80 + 60 = 180$

It checks.