

p72
q17,18,24

17) to write an equation

S1 - m

S2 - b

S3 - write

A(2,3) B(-2,7)

$$m = \frac{4}{-4} = -1 \quad \leftarrow \text{1st eq. slope}$$

$$y = -x + b$$
$$3 = -(2) + b \quad \leftarrow \text{1st eq.}$$
$$b = 5$$
$$y = -x + 5$$

2nd eq is $y = x + 5$

$$m_1 = -1 \quad m_2 = 1$$

(0,5) ← y-int

$$y = x + 5$$

← calculated above

the 2nd equation is $y = x + 5$ because:

a) slope is neg. reciprocal of -1
and

b) the y-int (0,5) is also the POI for
the system, that means it satisfies both
equations.

18)

$$a) F = 2C + 30$$

w/ly
thumb

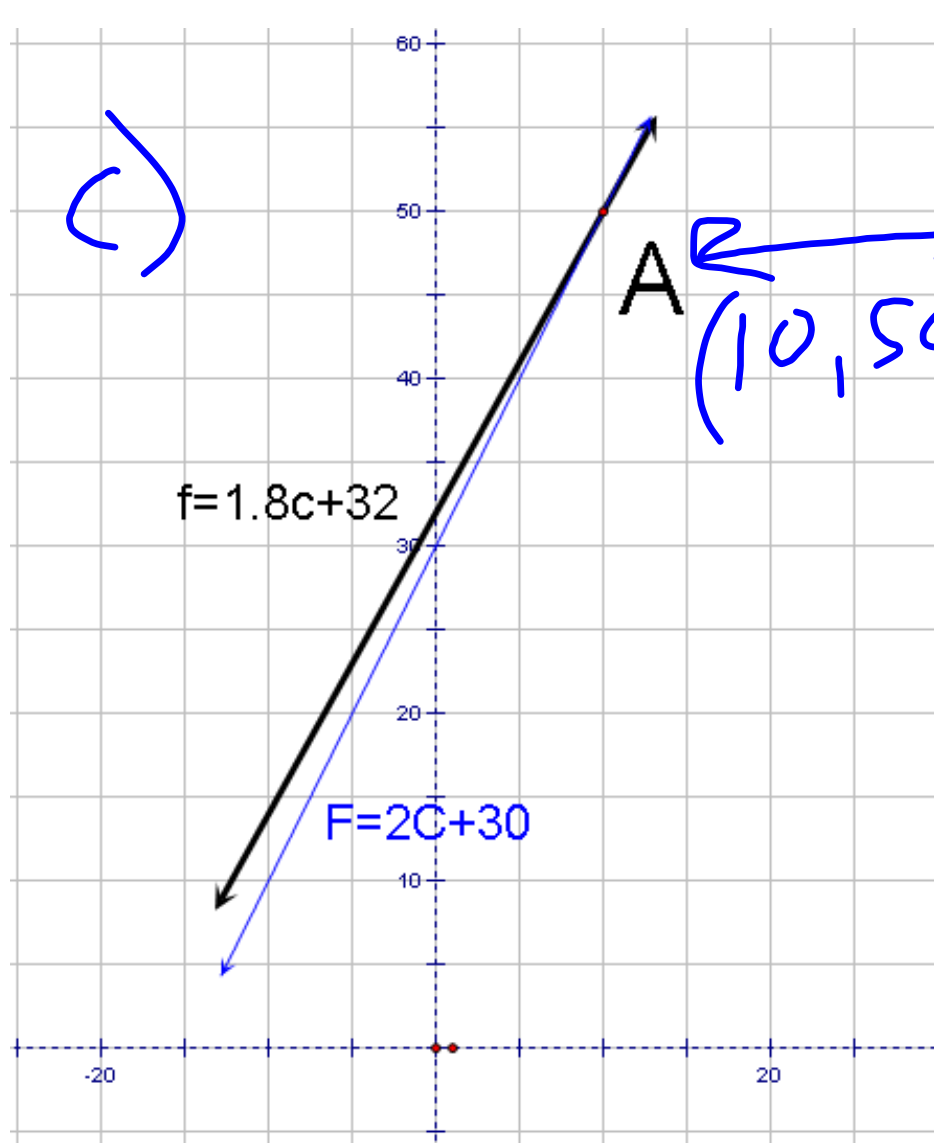
exact

$$f = 1.8c + 32$$

$$\begin{aligned} C &= -32^\circ \\ F &= -34^\circ \end{aligned}$$

b) Yes \rightarrow 1 sol.

$$C = -32 \quad \underline{\underline{f = -25.6^\circ}}$$



c)

b) Yes

$(10, 50)$ = sol

d) when $c < -14$
 $c > 24$

f will more than 50 diff.

$-14 < c < 24$

$C = -14$ $F = 2C + 30$ $F = 2^\circ$	$C = -14^\circ$ $F = 1.8C + 32$ $f = 6.8^\circ$
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$$C = 25^\circ$$

$$F = 80^\circ$$

$$C = 25^\circ$$

$$F = 77^\circ$$

$$C = 26$$

$$f = 82^\circ$$

$$C = 22$$

$$f = 70.8^\circ$$

$$-12 < C < 26$$

Lesson
1.8
#1-3