A/W Review:
p. 462 #36

x = Adm. cost → we can't find x— there are an inf. # of solutions to this system

y = cost of skates

243 = cost for 36 people + 21 skates

81 = 12 people / 7 skates

$$36x + 21y = 243$$

$$\frac{21y}{21} = \frac{-36x + 243}{21}$$

$$y = \frac{-12}{7}x + \frac{81}{7}$$

$$12x + 7y = 81$$

$$\frac{7y}{7} = \frac{-12x + 81}{7}$$

$$y = \frac{-12}{7}x + \frac{81}{7}$$

(33) $7x - 8y = -9$

$$\frac{-8y}{-8} = \frac{-7x - 9}{-8}$$

$$y = \frac{7}{8}x + \frac{9}{8}$$

$$y = \frac{7}{8}x + 11$$

37 N 170 coach $+$ 100 bus. $= 27280$

Solvable $\leq$ 150 coach $+$ 80 bus $= 22860$

x = cost coach ticket

y = cost bus. ticket

$170x + 100y = 27280$

$\frac{100y}{100} = \frac{-170x}{100} + \frac{27280}{100}$

$y = \frac{-17}{10}x + 272.8$

$150x + 80y = 22860$

$\frac{80y}{80} = \frac{-150x}{80} + \frac{22860}{80}$

$y = \frac{-15}{8}x + \_\_\_$

(18)

$5x - 5y = -3$

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

$y = x + \frac{3}{5}$

$y = x + 0.6$

inf. # of solutions

$5 \cdot \frac{3}{5} = 0.6 \cdot 5$

$3 = 3.0 \checkmark$

Thurs: 11/20 — Work sample (word problem)

Fri: 11/21 — Unit test - sections 7.1-7.5

numerical + word probs.

- solve lin. sys. by
  - → graphing 7.1
  - → substitution 7.2
  - → add/sub (elimination) 7.3, 7.4
- ID whether a lin. sys. has 1, none, or inf. solutions 7.5

Homework:

p. 475. 478 5-27 odd
p. 479 28-30