30.) Ideal waist size.
According to Dr. Aaron R Folsom of the University of Minnesota School of Public Health, your maximum ideal waist size is directly proportional to your hip size. For a woman with 40 inch hips, the maximum ideal waist size is 32 inches. What is the maximum ideal waist size for a woman with 35-inch hips?

Hips ~ Waist
→ 40 ~ 32
→ 35 ~ (32/40)x35
~ 28

Section 3.1
Ex 8, 18, 70

Ordered Pairs
Complete each ordered pair so that it satisfies the given equation

8. $y = 2x + 5$: $(8,\ )$, (-1), $(\ , -1)$

Use the given equations to find the missing coordinates in the following table

10) $y = -x + 4$

x	y
-2	
0	
2	
	0
	-2

70) $x - 2y = 6$

Graphing a line Given a Point and slope

Section 3.2 Ex 8, 10, 42, 52

42) The line through $(-2, 3)$ with slope -2

52) Draw L_1 through $(-4, 0)$ and $(0, 6)$. What is the slope of any line parallel to L_1? Draw L_2 through the origin and parallel to L_1.

Section 3.3 Exercise 8, 10, 32, 66 & 72

Find the slope and y-intercept for each line that has a slope and y-intercept

32) $x + 2y = 3$

66) $y + 4x = 8$

In each case determine whether the lines are parallel, perpendicular, or neither.

72) $y = x + 7$
$y = -x + 2$

Section 3.4: Exercises

Point-Slope Form

Write each equation in slope-intercept form

10. $y+3=-3(x-6)$

Find the equation of the line that goes through the given point and has the given slope. Write the answer in slope-intercept form.

24) $(-1,-5)$, 8

Find the equation of each line. Write each answer in slope-intercept form.

56) The line is parallel to $-3x+2y=9$ and contains the point $(-2,1)$.

Find the equation of each line in the form $y=mx+b$ if possible.

62) The Line through $(3,2)$ with undefined slope