Math 4B - HW 25



1) Solve the following equations:

a)
$$\left| \frac{7}{4}x + \frac{3}{2} \right| = \frac{2}{3}$$

b)
$$x^2 + 8x + 15 = 0$$

c)
$$\sqrt{.22x} = 1.1$$

2) Match the function with the correct graph (by labeling the pictures on the next page)

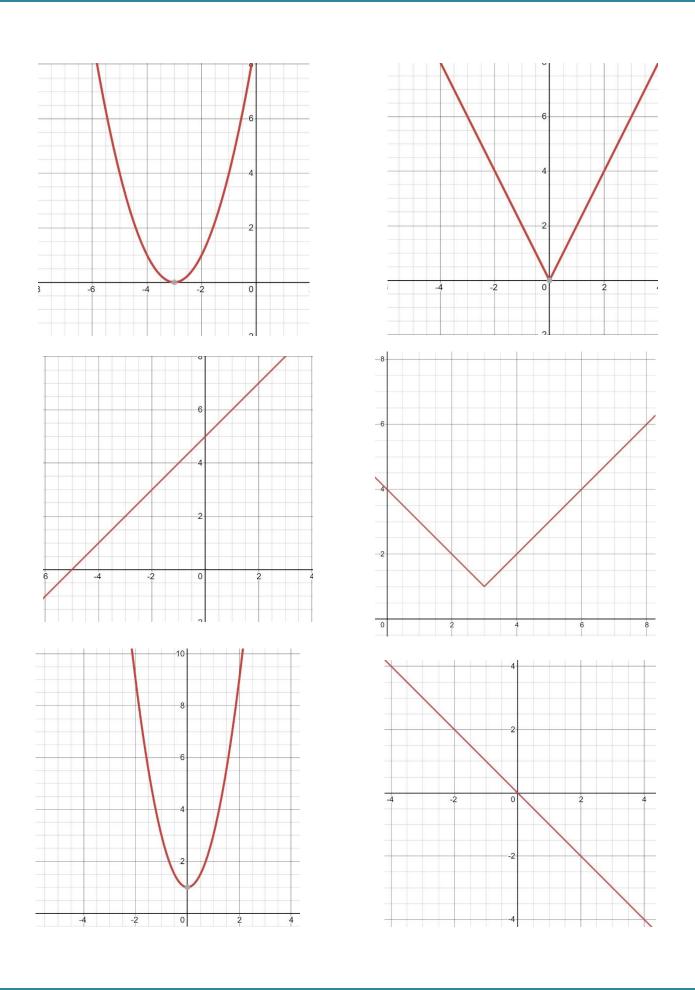
a.
$$x + 5$$

b.
$$(x+3)^2$$

c.
$$|2x|$$

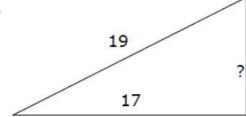
d.
$$2x^2 + 1$$

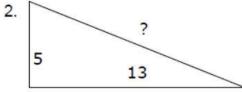
f.
$$|x-3|+1$$



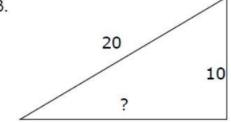
3) Use the Pythagorean Theorum to find the missing value of the following triangles. (keep your answer in square-root form)

1.

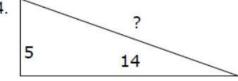




3.



4.



4)	a)	How many two-digit numbers can be composed from digits 1, 2, 3 without repetition of digits?
	b)	How many two-digit numbers can be composed from digits 1, 2, 3, if repetition is allowed?
	c)	Using the previous two questions, can you find how many two-digit numbers composed from digits 1, 2, and 3 have repeating digits?
	d)	How many three-digit numbers can be made (with any digits) without repetition?
	e)	How many three-digit numbers can be made (with any digits), if repetition is allowed?
	f)	Using the previous two questions, how many three-digit numbers have repeating digits?