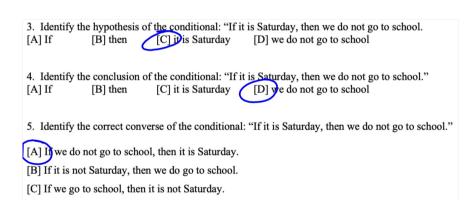
1. Use this conditional:
If ten is divided by any number, then the result is a number less than ten.
a. State the hypothesis. 15 divided by any #.
b. State the conclusion e result 18 att / 10.
c. Is this conditional true? If not, give a counterexample.



[D] If it is Sunday, then we do not go to school

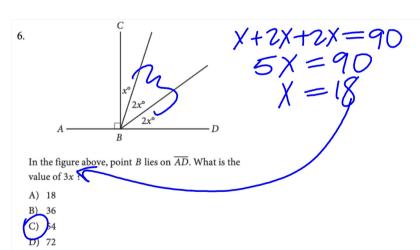
- 2. Use this conditional: If a figure is a triangle, then it has three sides.
- a. Is this conditional true? If not, give a counterexample.

TRUE

b. Write the converse of this conditional has 35 ides, then H

c. Is the converse true? If not, give a counterexample.

True.

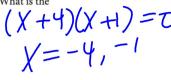


7. In the *xy*-plane, the graph of the function

 $f(x) = x^2 + 5x + 4$ has two x-intercepts. What is the

distance between the x-intercepts?





 $9. \sqrt{4x} = x - 3$

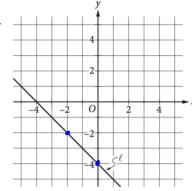
What are all values of x that satisfy the given

A) Lonly

- B) II only
- D) Neither I nor II

$$\sqrt{4.9} = 9 - 3$$
 $6 = 61/$

8.



y = mx + b y = -1x - 4

$$\chi + \gamma = -\gamma$$

Which of the following is an equation of line ℓ in the xy-plane above?

A)
$$x - y = -4$$

B)
$$x - y = 4$$

C)
$$y + y = -4$$

D)
$$x + y = 4$$

1. **REVIEW** What is the slope, m, of each of the following lines?

a.
$$y = \frac{1}{2}x + 6$$

b.
$$y = \frac{3}{4} - 4x$$

c.
$$2x + 5y = 10$$

$$m = \frac{1}{100}$$

d.
$$y - 8 = 5(x + 2)$$

2. Name at least three real-life examples of parallel lines.

3. Write a definition for parallel lines.

I MUS +MUH (IR IN +MU)

S (MML Plane and NIVIV

LOW)

1. Write a definition for a transversal and then draw an illustration.

4. Write a definition for skew lines Ines are the same distance from each

Consecutive interior angles: (Same Side Int)

23925 lie Inside but on

24426

	Based on your exploration, write conjectures about the corresponding angles, alternate interior angles, alternate exterior angles, and consecutive interior angles formed when parallel lines are cut by a transversal. Write your conjectures as conditional statements, using the if-then format.
CM	<i>!</i> :
SA	S #2
Qu	estions 5-8

4. AB intersects CD and forms four angles, labeled
1-4 in the diagram. Translate AB along DC so that
D coincides with C. What is the resulting image
and how does it justify the conjectures you made
about corresponding angles formed by two lines
cut by a transversal?

