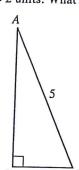
- 49. What is the value of log<sub>2</sub> 8?
  - B.
  - 4
  - C. 6 D. 10 16

50. In the right triangle below, the measure of  $\angle C$  is 90°, AB = 5 units, and CB = 2 units. What is  $\tan B$ ?

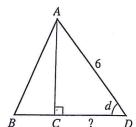




- 51. A flight instructor charges \$50 per lesson, plus an additional fee for the use of his plane. The charge for the use of the plane varies directly with the square root of the time the plane is used. If a lesson plus 16 minutes of plane usage costs \$90, what is the total amount charged for a lesson having 36 minutes of plane usage?

  - **B.** \$150
  - C. \$135
  - D. \$110 E. \$ 60

52. In  $\triangle ABD$ , shown below, C is on  $\overline{BD}$ , the length of  $\overline{AD}$ is 6 inches, and  $\sin d = 0.8$ . How many inches long is



- **F.** 1.2
- G. 1.8
- H. 3.6
- J. 4.8K. Cannot be determined from the given information

- 53. For real numbers a and b, when is the equation |a+b| = |a-b| true?
  - A. Always
  - **B.** Only when a = b
  - C. Only when a = 0 and b = 0
  - **D.** Only when a = 0 or b = 0
  - E. Never

## ALG 2 BELLWORK

49. What is the value of log<sub>2</sub> 8?

77.	Wilatis	
346	A.	3
9	В.	4
	C.	6

50. In the right triangle below, the measure of  $\angle C$  is 90°, AB = 5 units, and CB = 2 units. What is tan B?

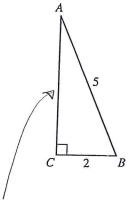


G. 
$$\frac{3}{2}$$

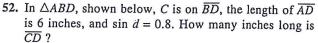
**H.** 
$$\frac{\sqrt{21}}{5}$$

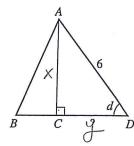
J. 
$$\frac{3}{5}$$

K. 
$$\frac{2}{5}$$



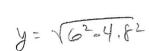
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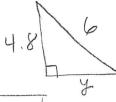




$$Sind = \frac{opp}{hyp}$$

$$.8 = \frac{x}{6}$$





53. For real numbers a and b, when is the equation |a+b| = |a-b| true?

- A. Always

- B. Only when a = bC. Only when a = 0 and b = 0D. Only when a = 0 or b = 0
  - E. Never