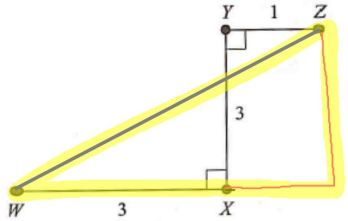
1. In the figure below, all distances are in feet and all angles are right angles. A straight line drawn from point W to point Z would be how long, in feet?



3

4

$3^2+4^2=h^2$

$9+16$

$25=h^2$

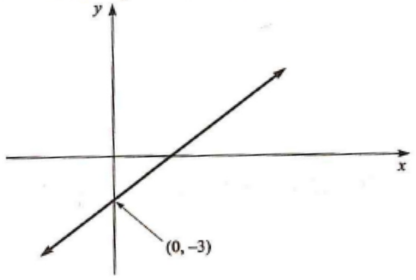
A. 1.5
B. 2
C. 4.66
D. 5
E. 7.23

2. If $6a^4b^3 < 0$, then which of the following CANNOT be true?

A. $b < 0$
B. $b > 0$
C. $a = b$
D. $a < 0$
E. $a > 0$

$6a^4b^3 < 0$

3. If a system of 2 linear equations in 2 variables has NO solution and 1 of the equations is graphed in the (x, y) coordinate plane below, which of the following could be the equation of the other line?



Parallel

Same Slope

diff y-int

A. $y = 2$
B. $y = -4x + 2$
C. $y = -2x - 3$
D. $y = 4x + 2$
E. $y = 4x - 3$

4. If the first day of the year is a Monday, what is the 260^{th} day?

A. Monday
B. Tuesday
C. Wednesday
D. Thursday
E. Friday

$$\begin{array}{r} 37 \text{ r}=1 \\ 7\overline{)260} \\ 21 \\ \hline 50 \\ 49 \\ \hline 1 \end{array}$$

1 - Mon	8 - Mon	
2 - Tue	9 - Tue	
3 - Wed	10 - Wed	
4 - Thur	11 - Thur	
5 - Fri	12 - Fri	
6 - Sat	13 - Sat	
7 - Sun	14 - Sun	21 - Sun

every mult of 7 is sunday
remainder of 1 means
1 day after Sun ⇒ Mon