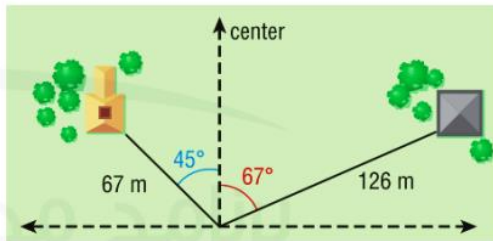


Question 1:

SURVEYING A surveyor mapping out the land where a new housing development will be built identifies a landmark 67 meters away and 45° left of center. A second landmark is 126 meters away and 67° right of center. Determine the distance between the two landmarks. **(Example 5)**



Question 2: find a different pair of polar coordinates given the point $(2, 30^\circ)$.

Question 3: equation of a polar graph (straight line) - Questions 57 & 60

Question 4: convert the given polar point $(\frac{1}{4}, \frac{\pi}{2})$ to the rectangular coordinate system.

Question 5: find $\lim_{x \rightarrow 4} g(x)$ - example 4a

Question 6: find $\lim_{x \rightarrow -1} \frac{x^2 - 4x - 5}{x^2 - 1}$

Question 7: find $\lim_{x \rightarrow \infty} \frac{7x^3 - 5x + 1}{14x^3 + x^2 - 4x}$

Question 8: find the slope of the line tangent for $y = 6 - 5x$ at $(-2, 16)$.

Question 9: find the velocity for $d(t) = 50t - 16t^2$ at $t = 3$.

Question 10: find the derivative of $f(x) = 3x^3 - 5x + 3$.

Question 11: find the derivative of $g(x) = (4x - 1)(2x^2 + 3)$.

Question 12: find the antiderivative of $f(x) = 8x^7 + 6x + 2$.

Question 13: graph of the negative distribution?

Question 14: discrete?

Question 15: find the expected value.

1	2	3	4	5	6
0.21	0.46	0.13	0.10	0.07	0.06

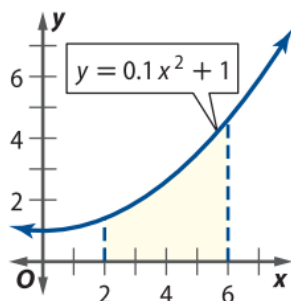
Question 16: write the polar form of the equation. $2xy = 4$

Question 17: express the given complex number $z = 9 + 7i$ in complex number.

Question 18: find the first four terms then find the limit of the sequence $a_n = \frac{3-2n}{n+1}$.

Question 19: approximate the area using the right endpoint.

width = 1.0



Question 20: find $\int_2^5 (x^2 - x + 6) dx$

Question 21: find the expected value.

