

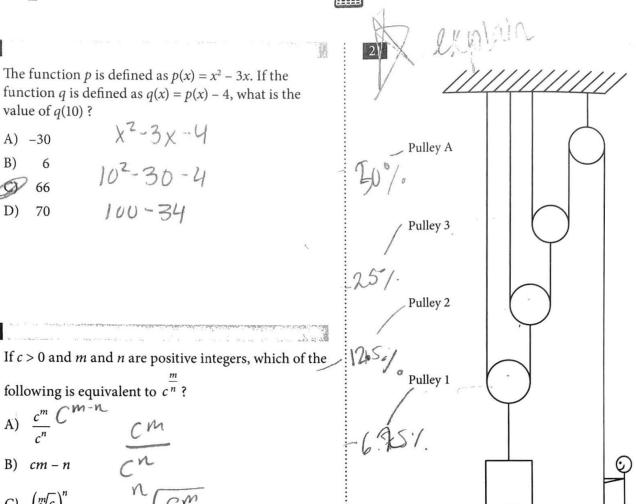
The function *p* is defined as $p(x) = x^2 - 3x$. If the function q is defined as q(x) = p(x) - 4, what is the value of q(10)?

- A) -30
- x2-3x-4
- B)
- 102-30-4
- D)
- 100-34

20

following is equivalent to c^{n} ?

- B) cm-n



In the figure above, each pulley added to the pulley system after Pulley A reduces the amount of force required to lift an object to 50% of the original amount. If the system has three additional pulleys, what would be the approximate force, in Newtons, that is exerted to lift a weight that normally requires 200 pounds of force to lift? (1 Newton = 0.224 pounds)

- A) 5.6 200 NOS INCW
 B) 11.2 724

C) 111.6 D) 223.2

6.75 (.0675)(200)

131bs x New

60.20





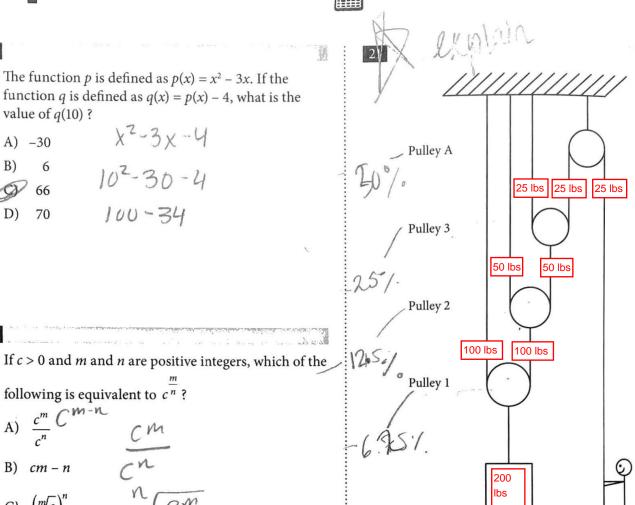
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C) 111.6 D) 223.2

6.75 (.0675)(200)

131bs x New

60.Zs



Newlon = 0,224 pounds.

1 Newton = 1 lbs

$$\frac{1}{5.224} \text{ Newton} \times (25) = (100) \times (25)$$

(116) Hewron = (25) lles

ANSWER.