



115

.....115.....

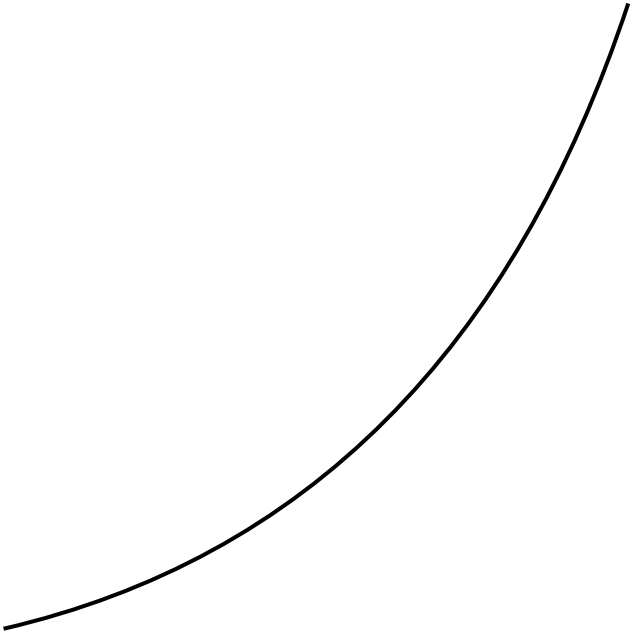




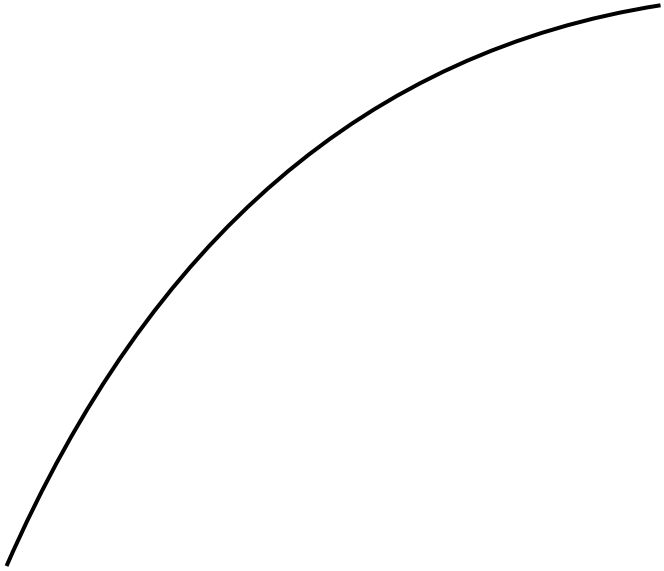


















5







12



14





16



15



13







1

2









































5

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12

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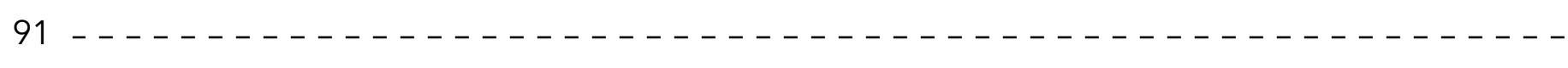
—

47

63

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102 -----





78



110

117

.....117.....































Total Product  
Decrease



$$i-2 = MP_{13}$$



1-5=MP14



-8 = MP<sub>15</sub>

$$\text{MP}_{16} = -11$$



$$MP_{17} = -13$$

















When worker #13 is hired, total product

**drops** by 2 units:

$$MP_{13} = -2$$

When worker #14 is hired, total product

**drops by 5 units:**

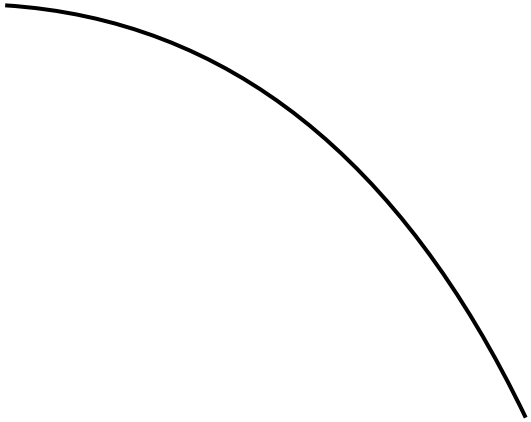
$$\text{MP}_{14} = -5$$



When worker #15 is hired, total product

**drops by 8 units:**

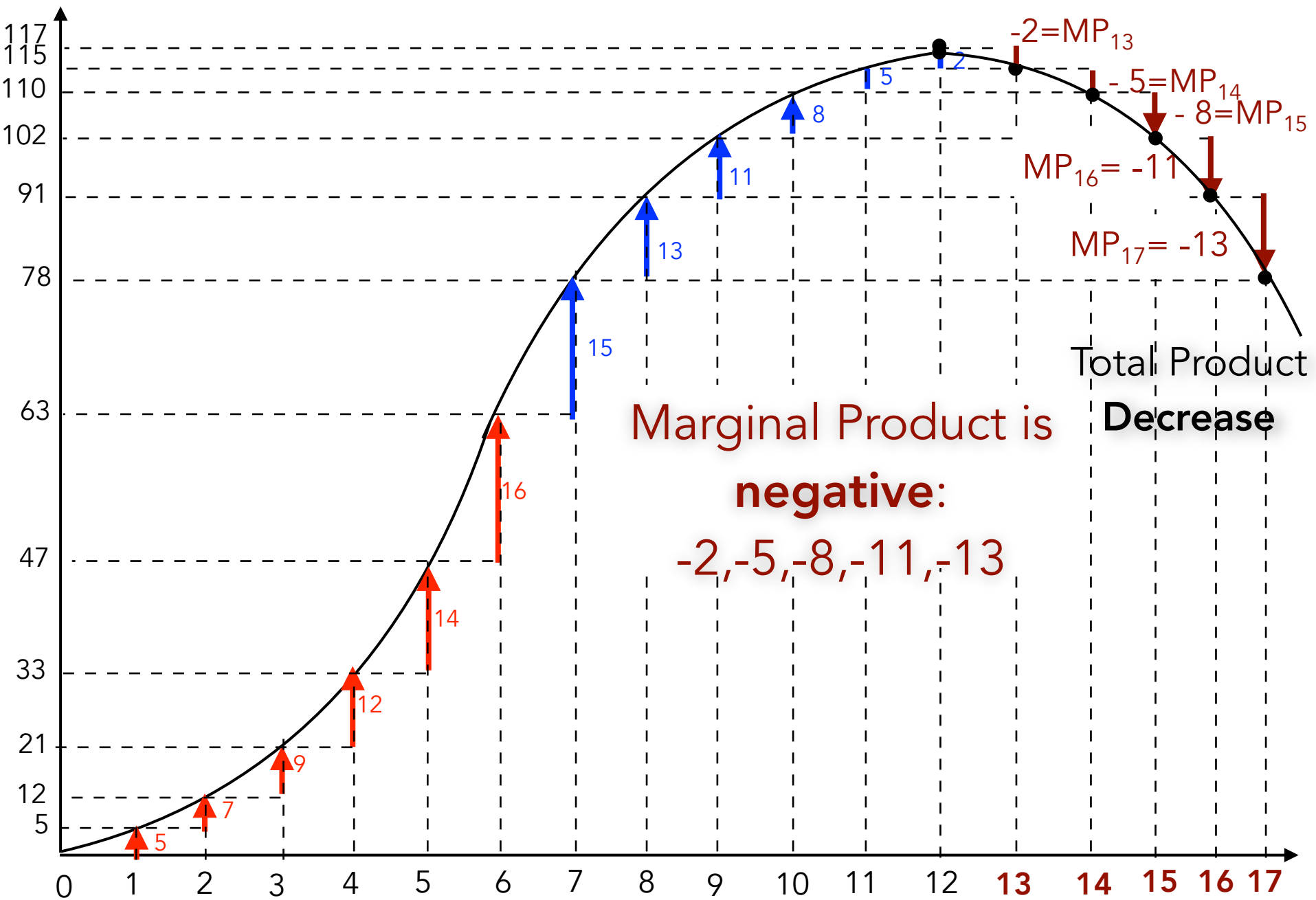
$$MP_{15} = -8$$



Marginal Product is

**negative:**

-2,-5,-8,-11,-13



# Adding workers to a Fixed Size Plant

