SAC 4 Item Analysis HMak

Question 1

Using a linear approximation, with , then is equal to

A



B

C

D

E 0.3716

Question 2

If and and then is equal to

A

B 3

C 6

D 9

E

Question 3

Water is filling a cylinder which has a radius of 5 cm. The height of the water in the cylinder is changing at the variable rate of cm/sec. The rate, in cm3/ sec, at which the volume of the water in the cylinder is changing at t = 10 sec is

A 2π

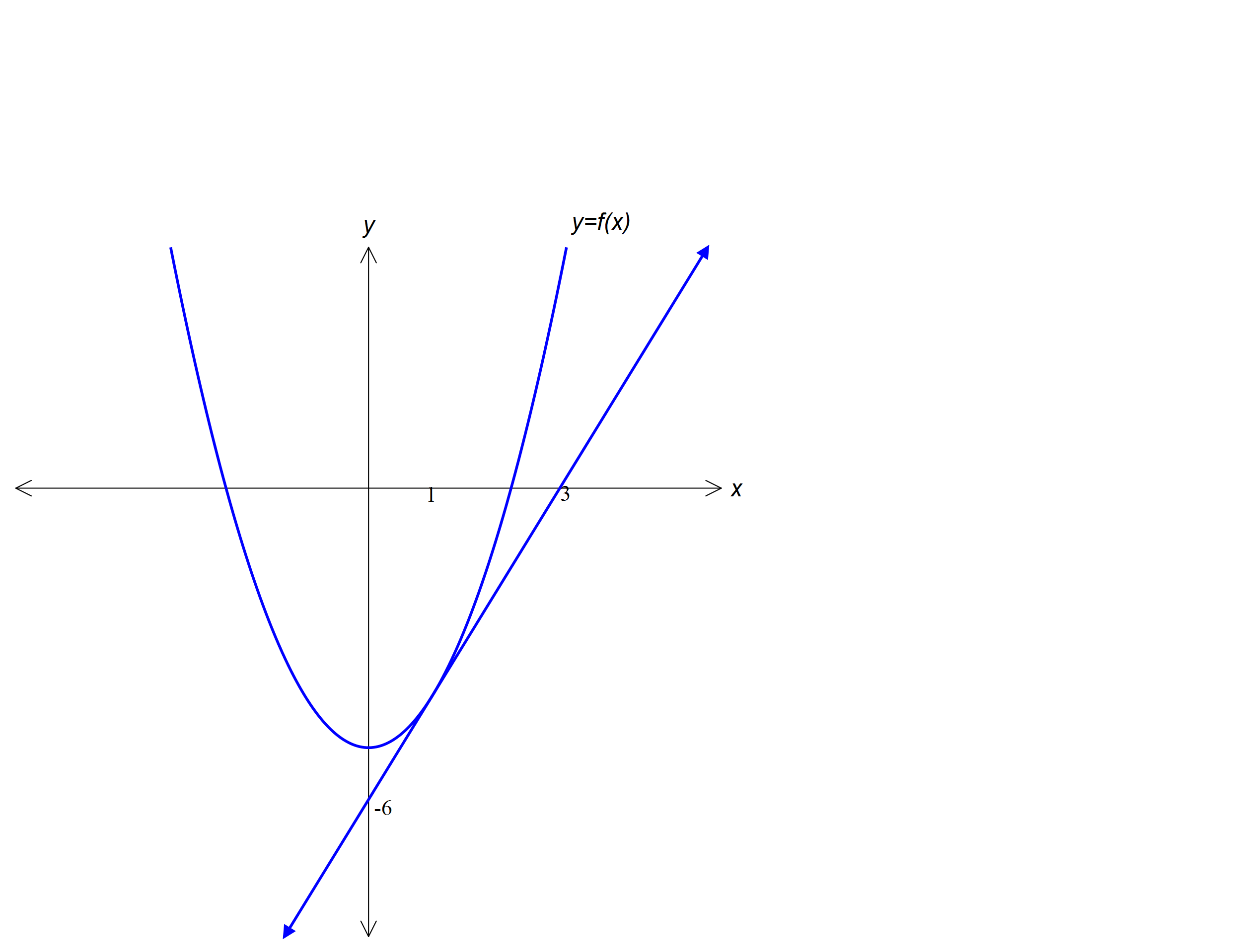
B 2.5 π

C 25π

D 50π

E 250π

Question 4



The graph of the function *f*  is shown above. A tangent is drawn to the point where *x* = 1.

It is true to say that

A *f* (1) = 2

B *f* ***´*** (1) =

C *f* ***´*** (1) = 2

D *f* (3) = 1

E *f* ***´*** (3) = 0