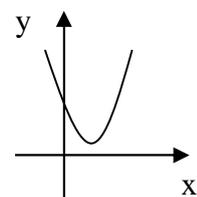


9

1.

x. $y(1) = a + b + c > 0$, (.1)
 , $y(0) = > 0$.



.1

2.

8 $\frac{8}{3}$
 5 , - 3,
 $5 - \frac{8}{3} = \frac{7}{3}$, $3 - \frac{8}{3} = \frac{1}{3}$.

1:7. . . 14 , -2 .

3.

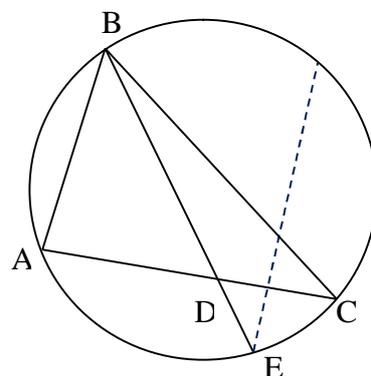
$$(x^2 + 2x + 3)(2x^4 - 4x^2 + 3) < 2$$

$$((x+1)^2 + 2)(2(x^2 - 1)^2 + 1) < 2.$$

$$(x+1)^2 + 2 \geq 2 \quad 2(x^2 - 1)^2 + 1 \geq 1, \quad (x^2 + 2x + 3)(2x^4 - 4x^2 + 3) \geq 2.$$

4.

E. BD
 $\angle ADB = \angle CDE$ (); $\angle ABE = \angle ACE$
 (,),
 $\triangle DAB \sim \triangle DEC$. $DE = EC$, ,
 DC BEC, . .
 BC.



5.

:

125

125.

2

2

1

1

2.

2.