a = −1
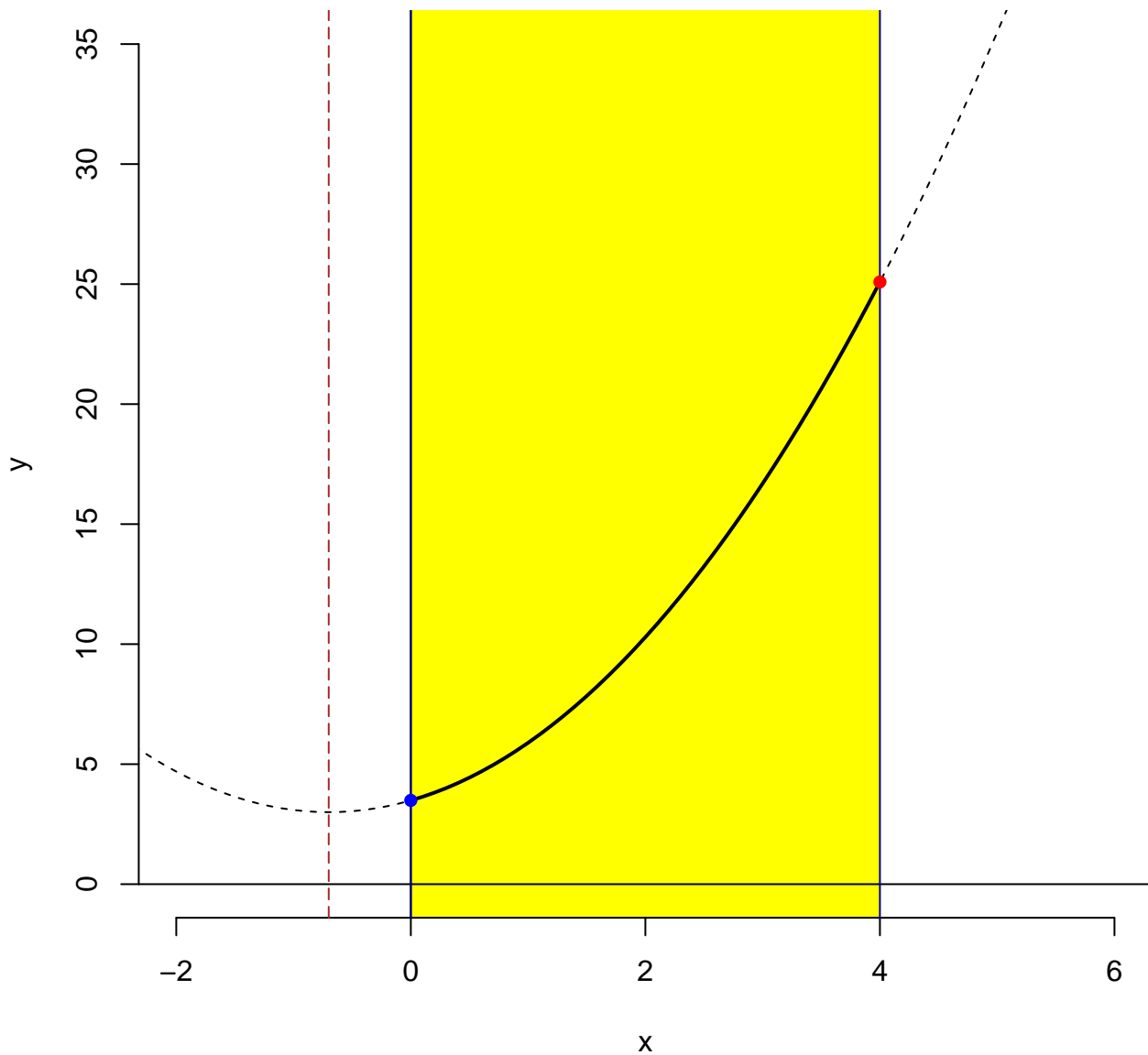
a = −0.9
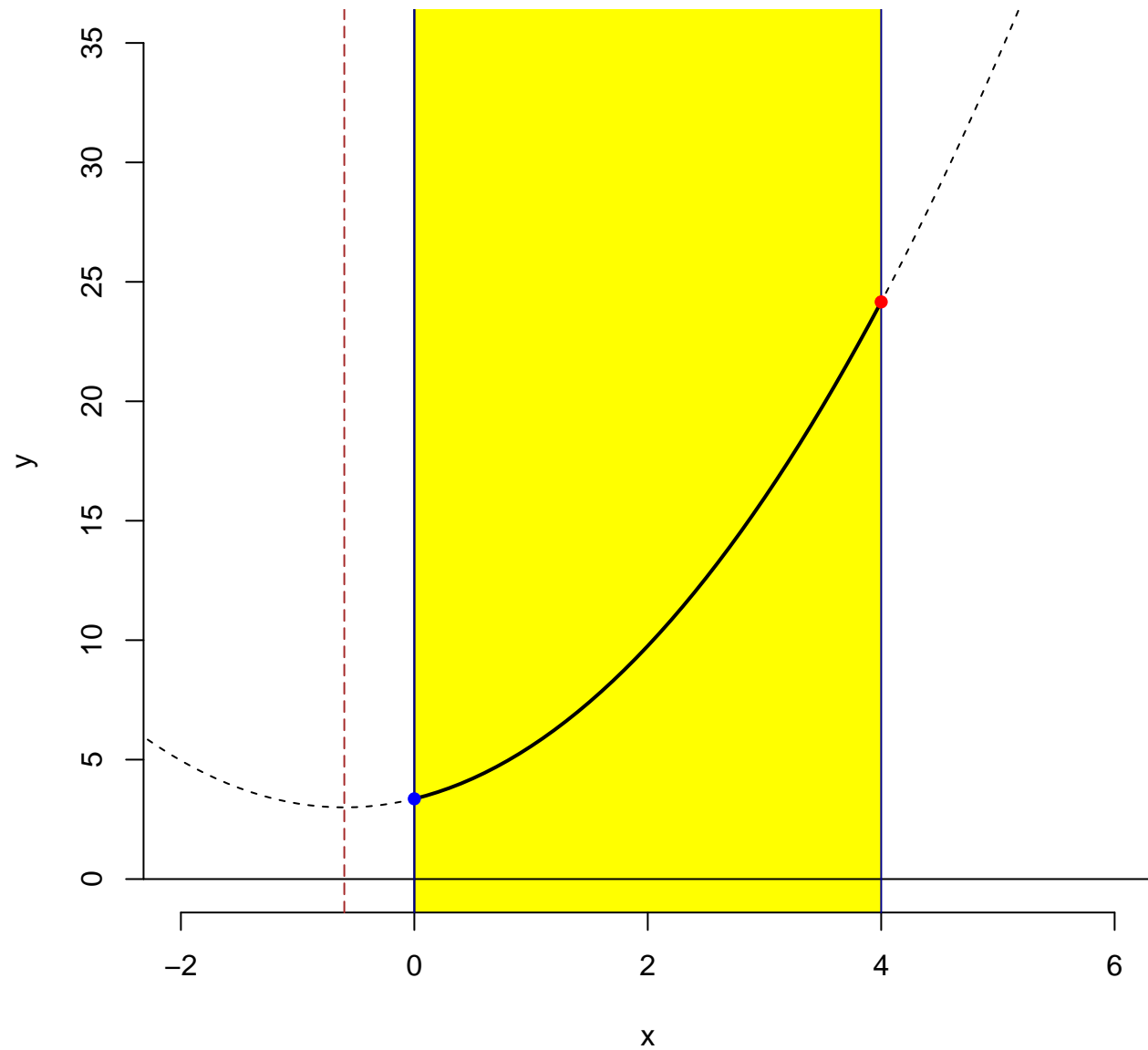
a = −0.8

a = −0.7

a = −0.6

a = −0.5

a = −0.4

a = −0.3

a = −0.2

a = −0.1

a = 0

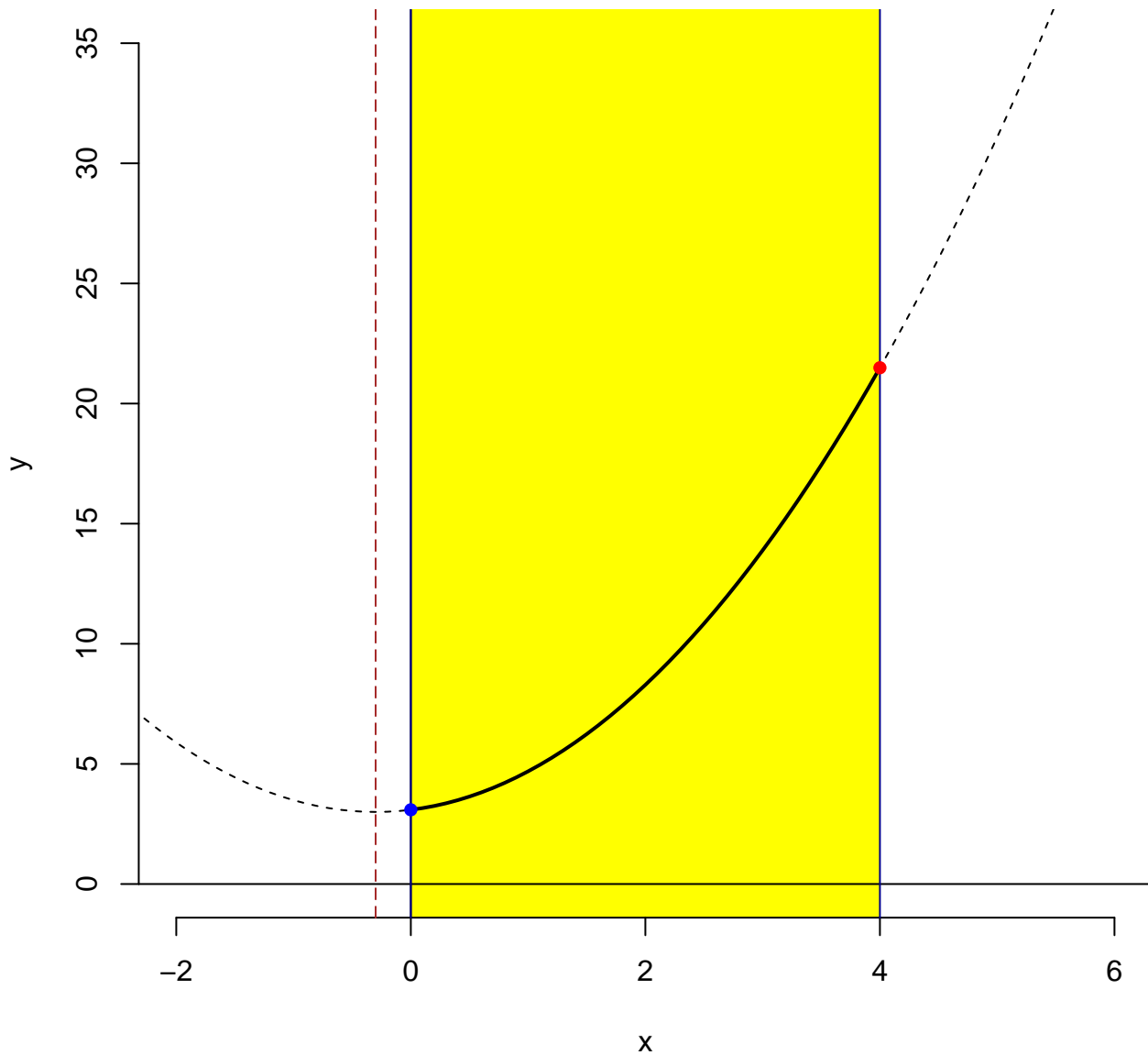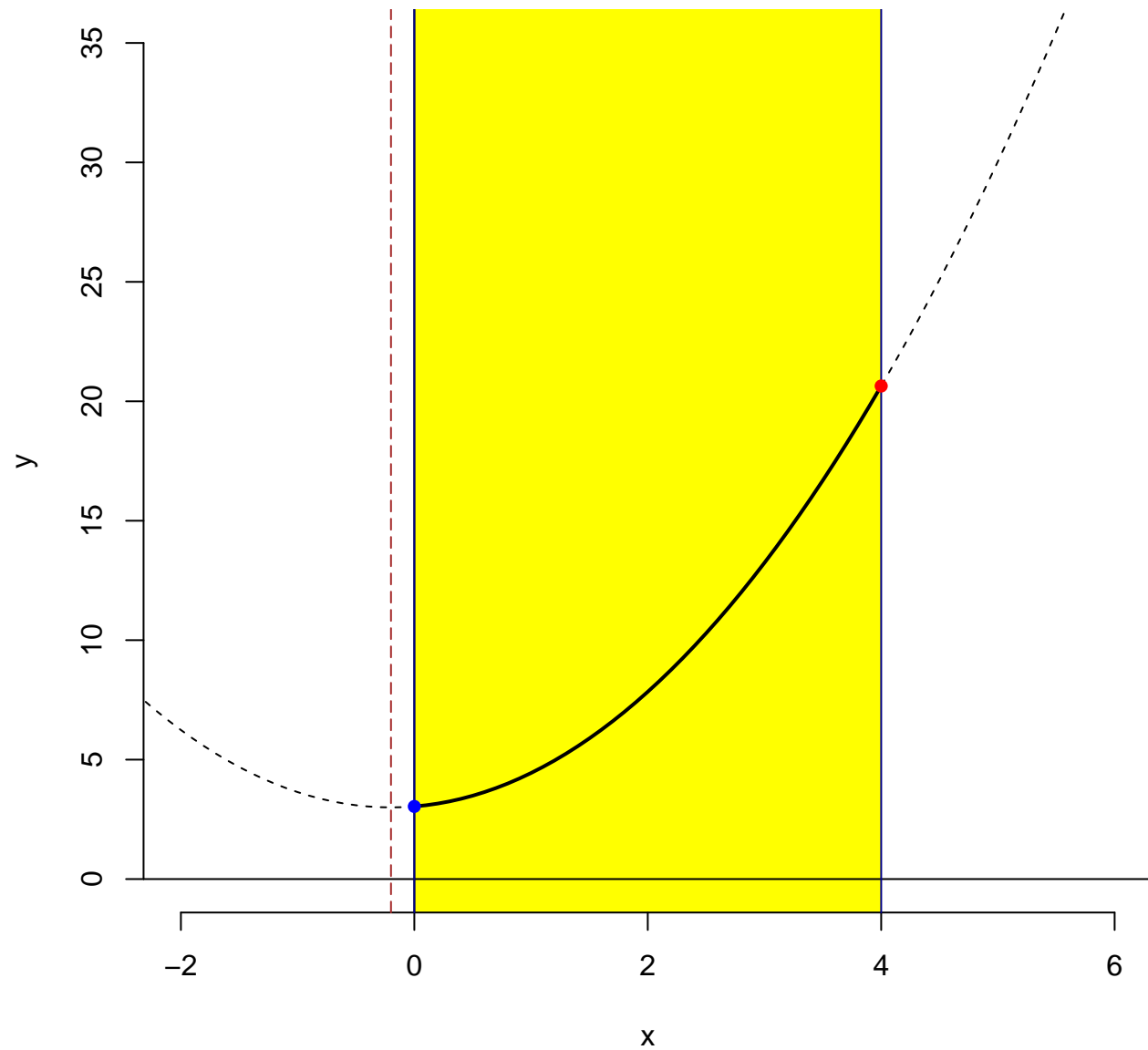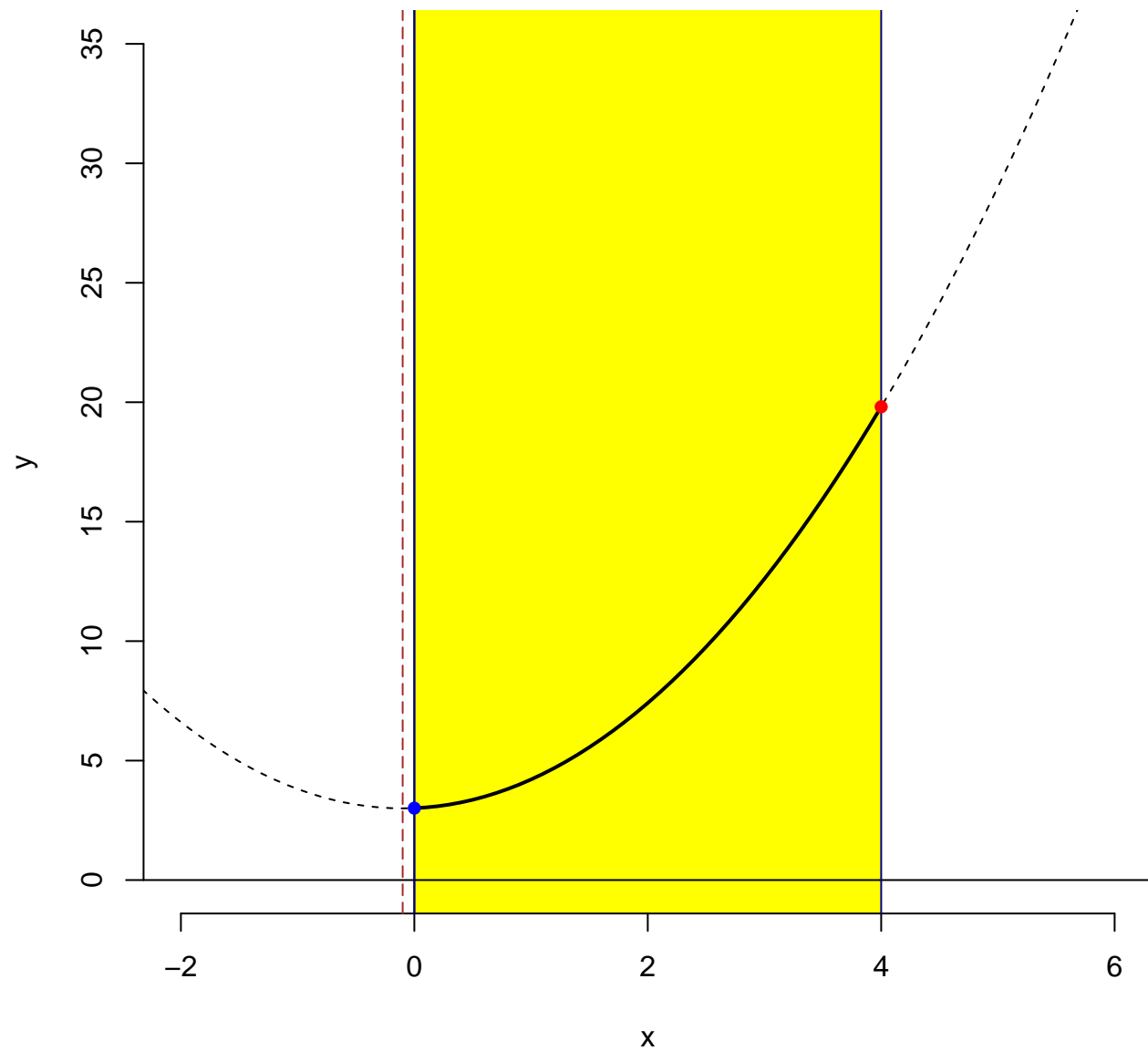Minimum point at x = 0, which is incidentally the vertex
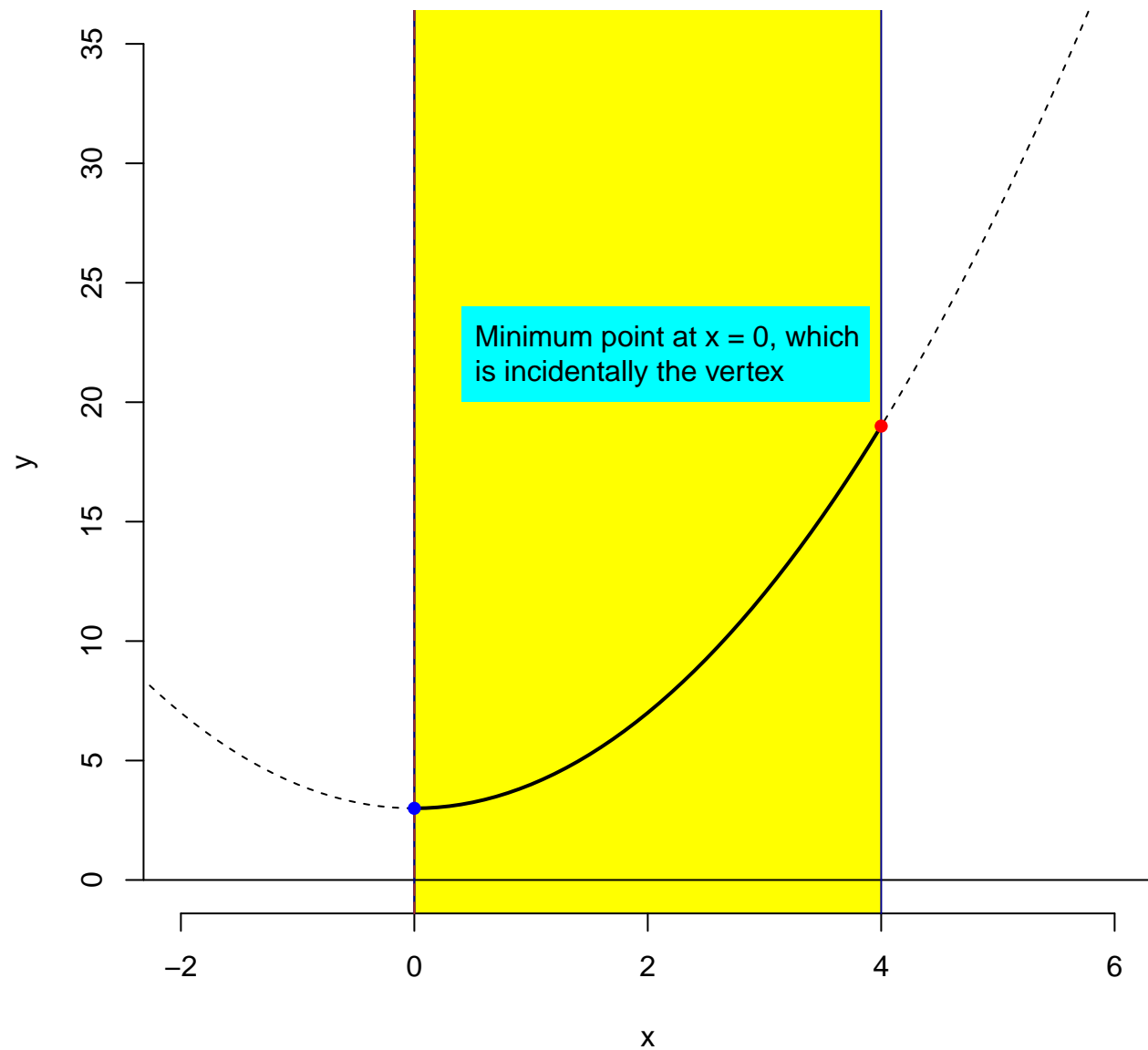
a = 0.1

a = 0.2
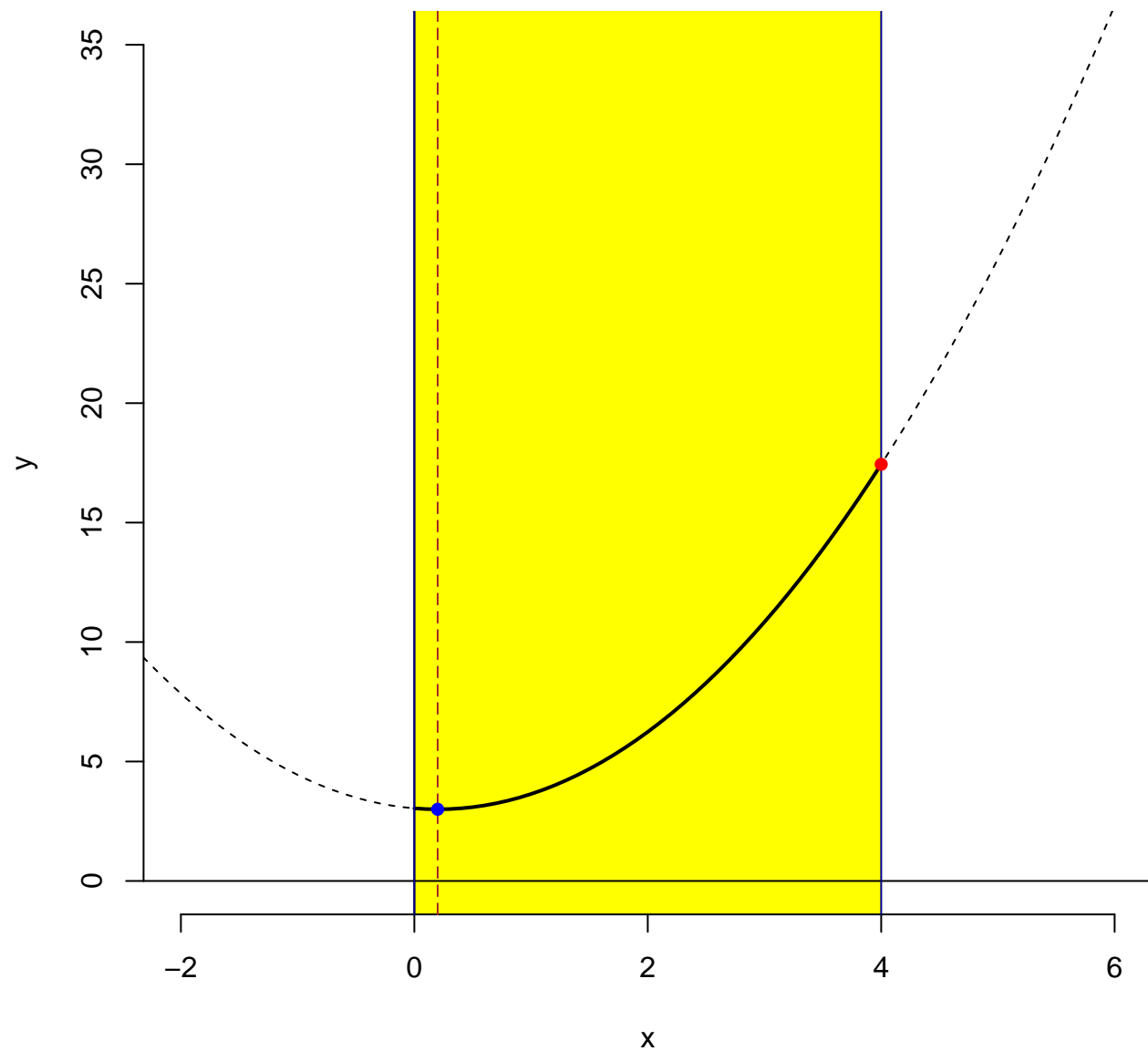
a = 0.3

a = 0.4

a = 0.5
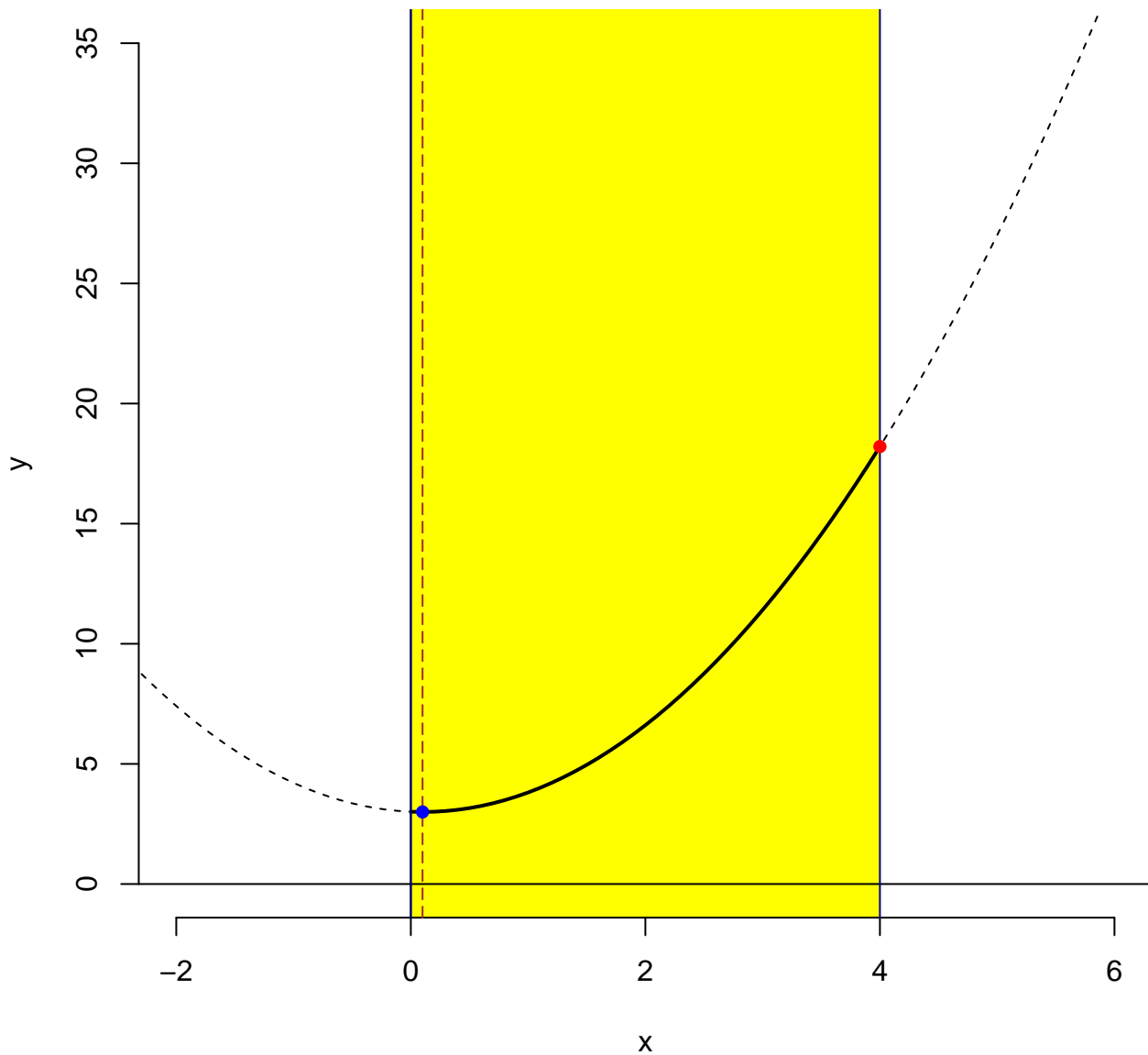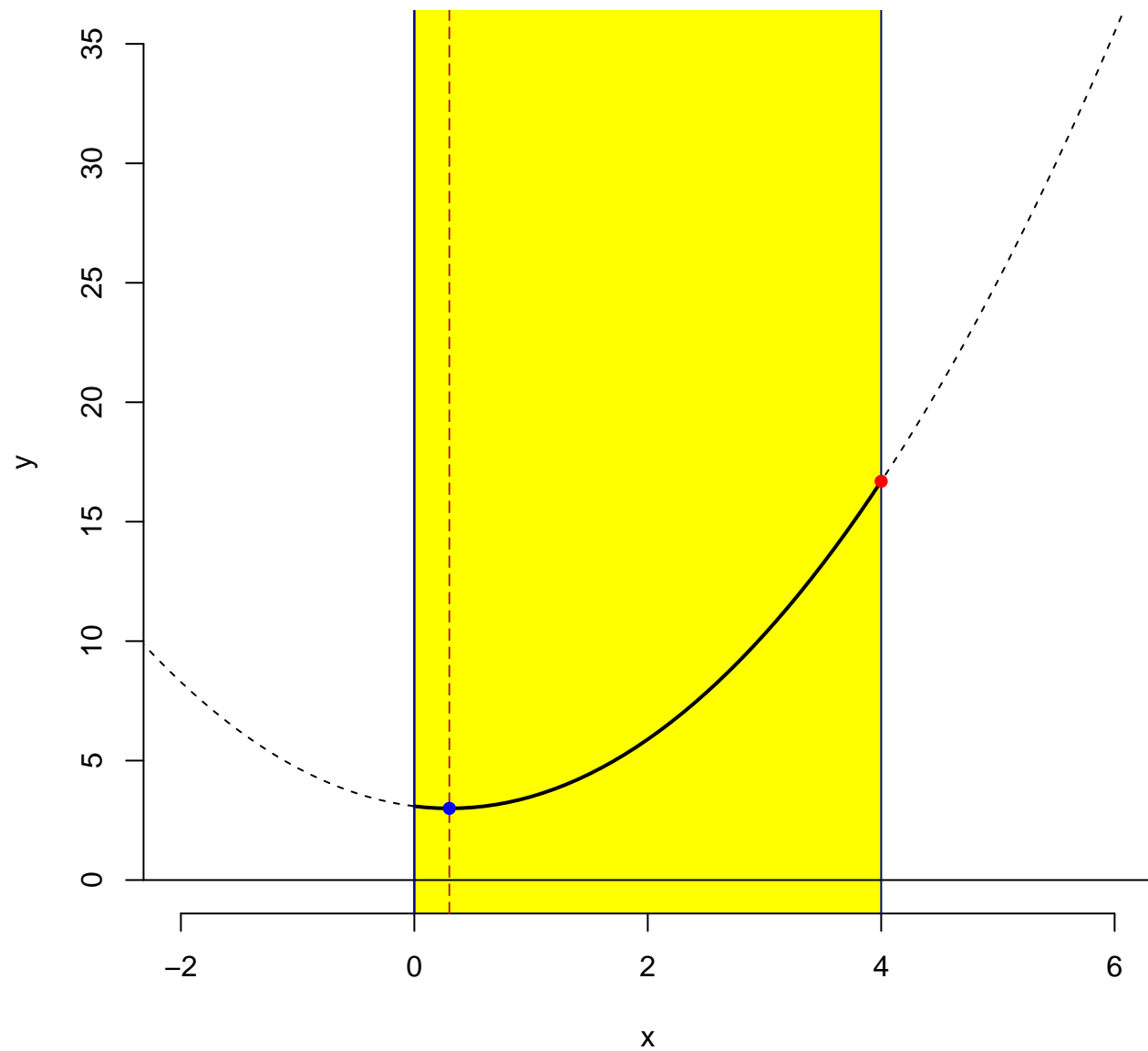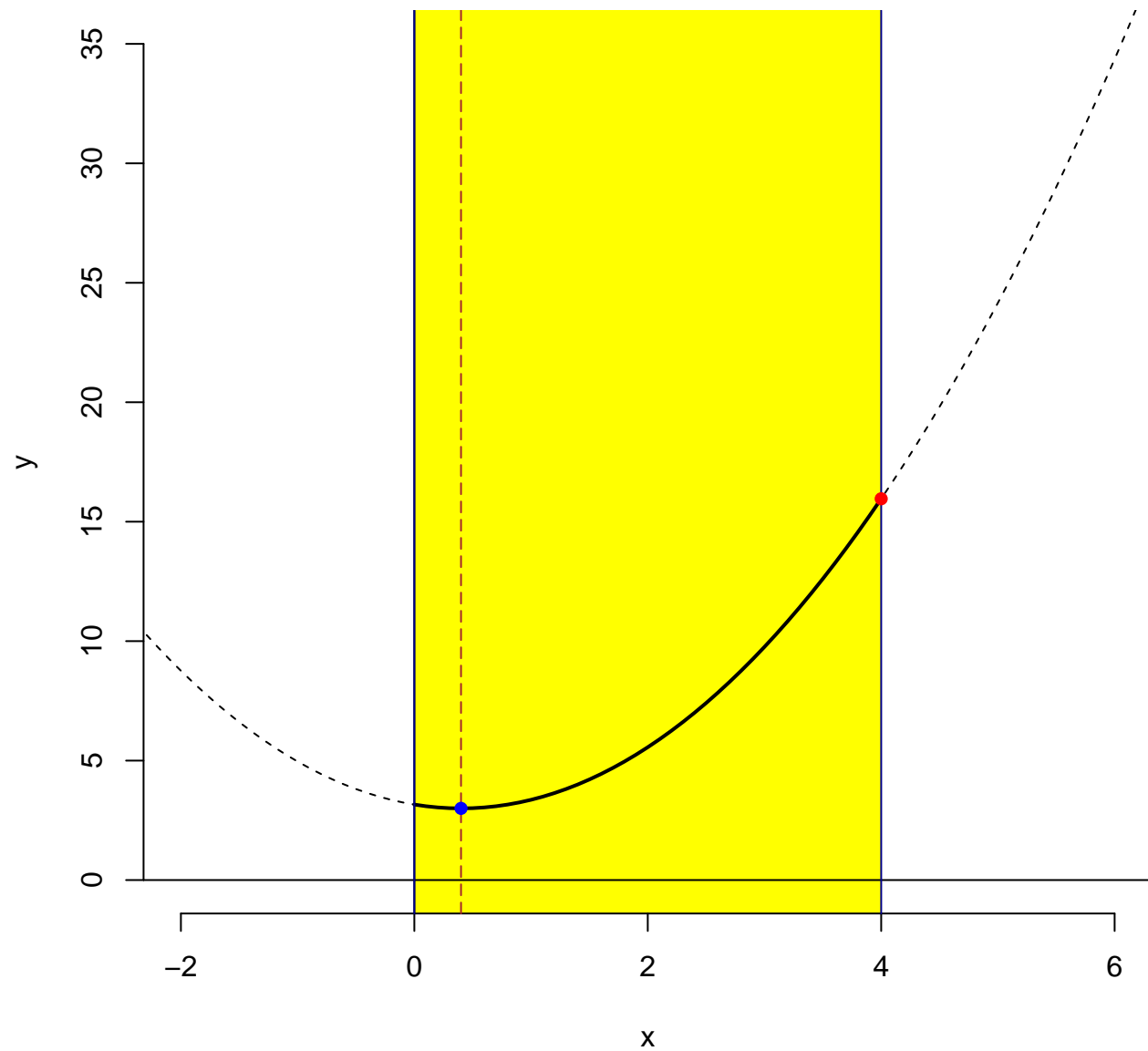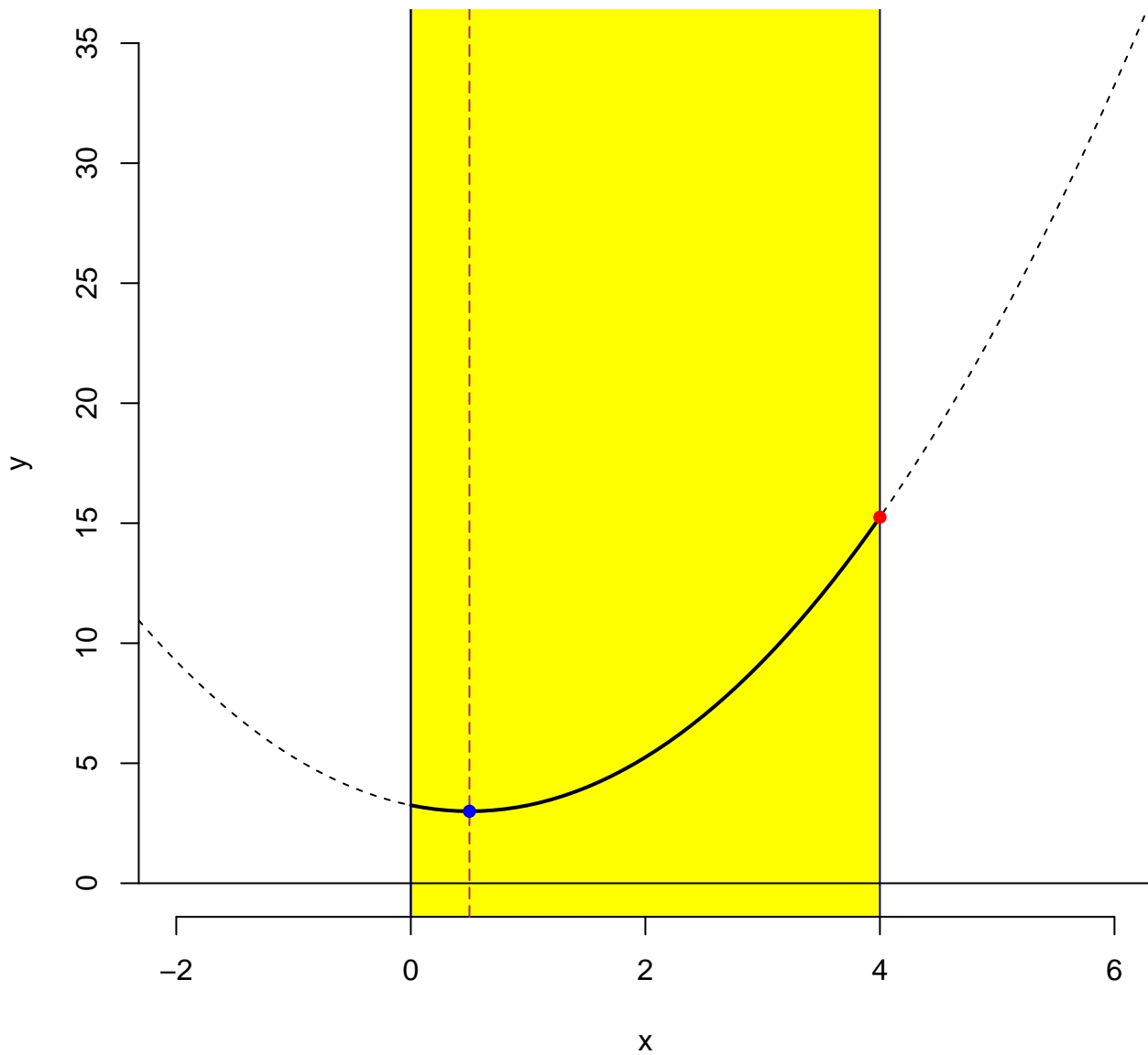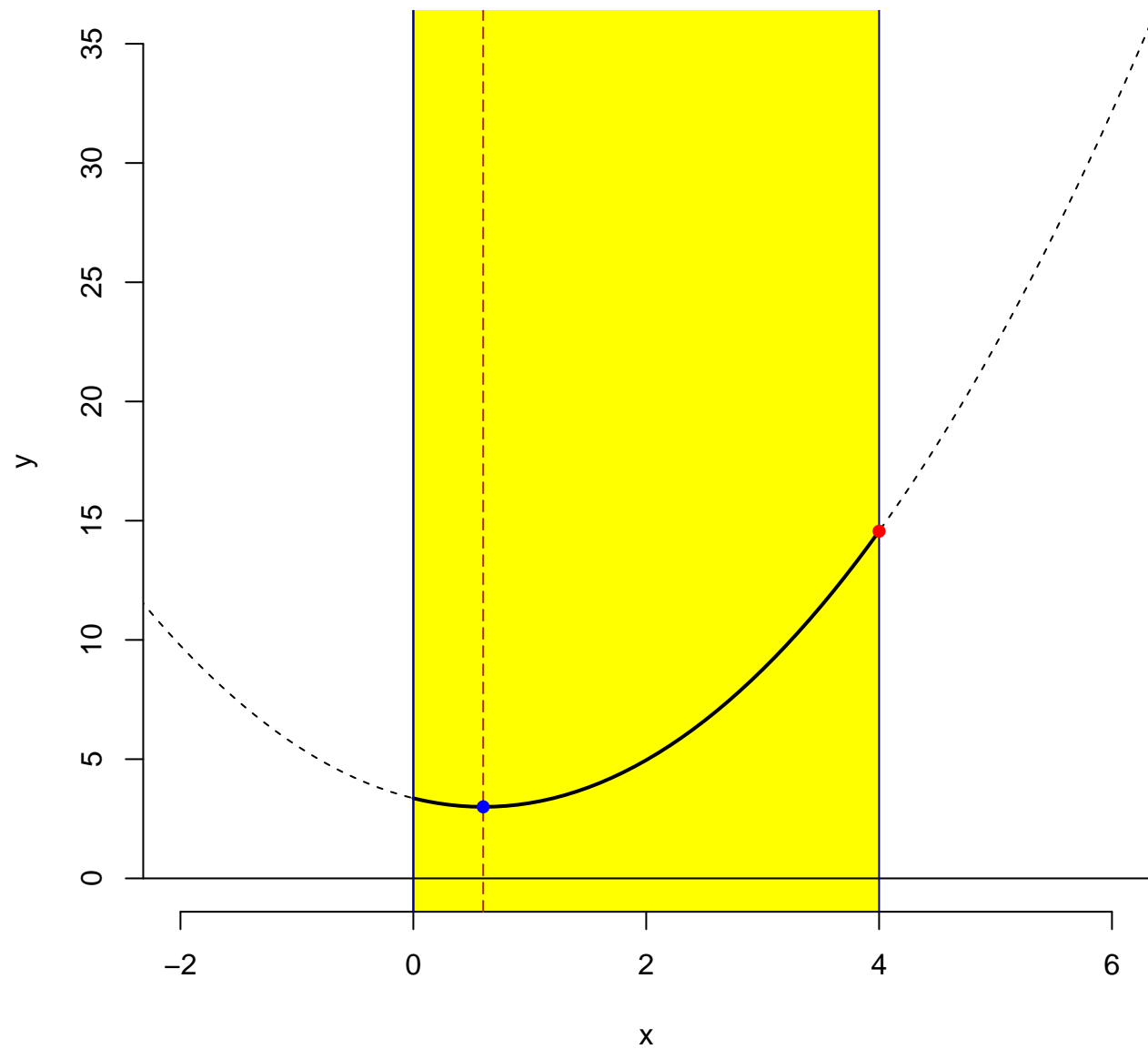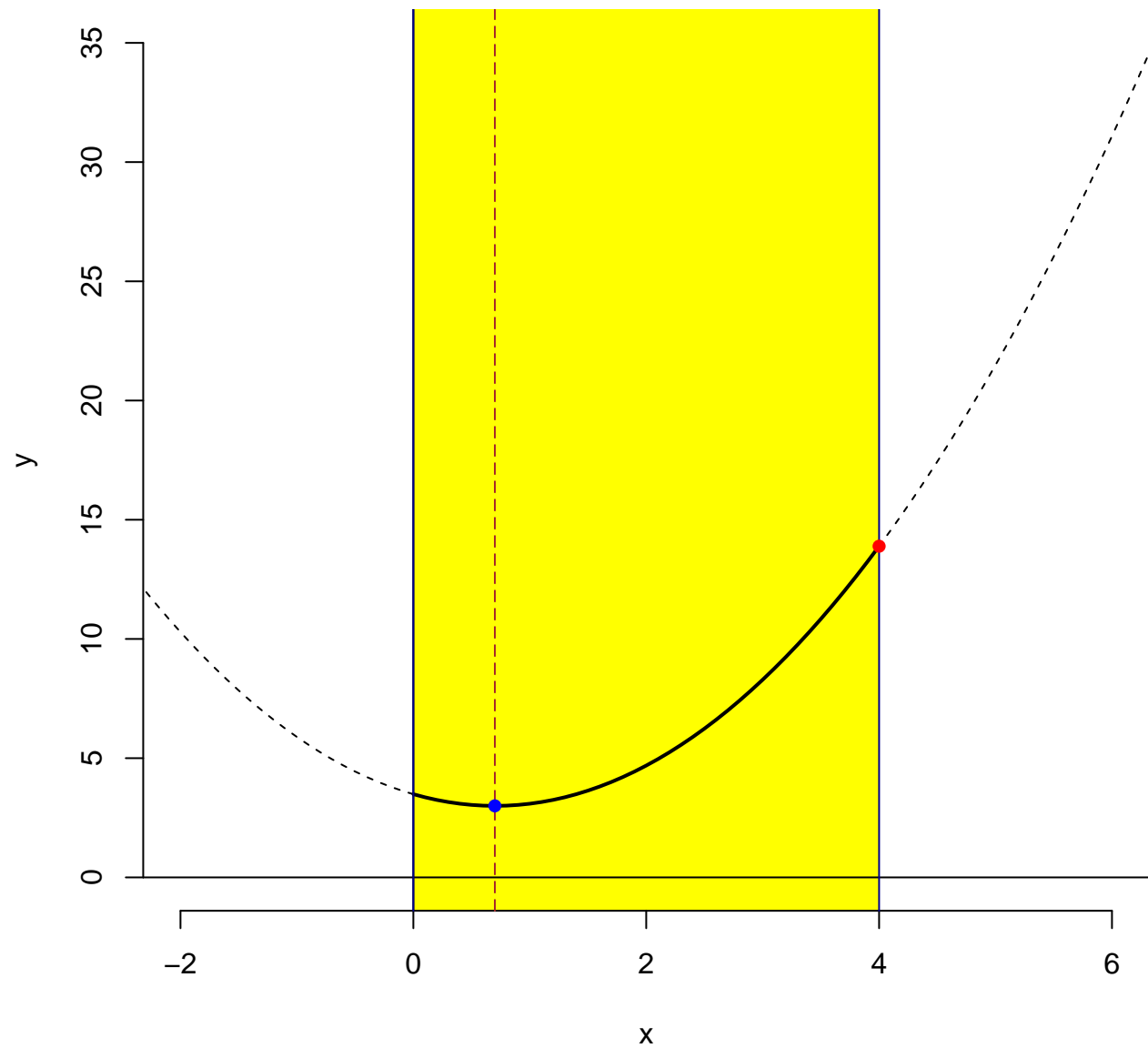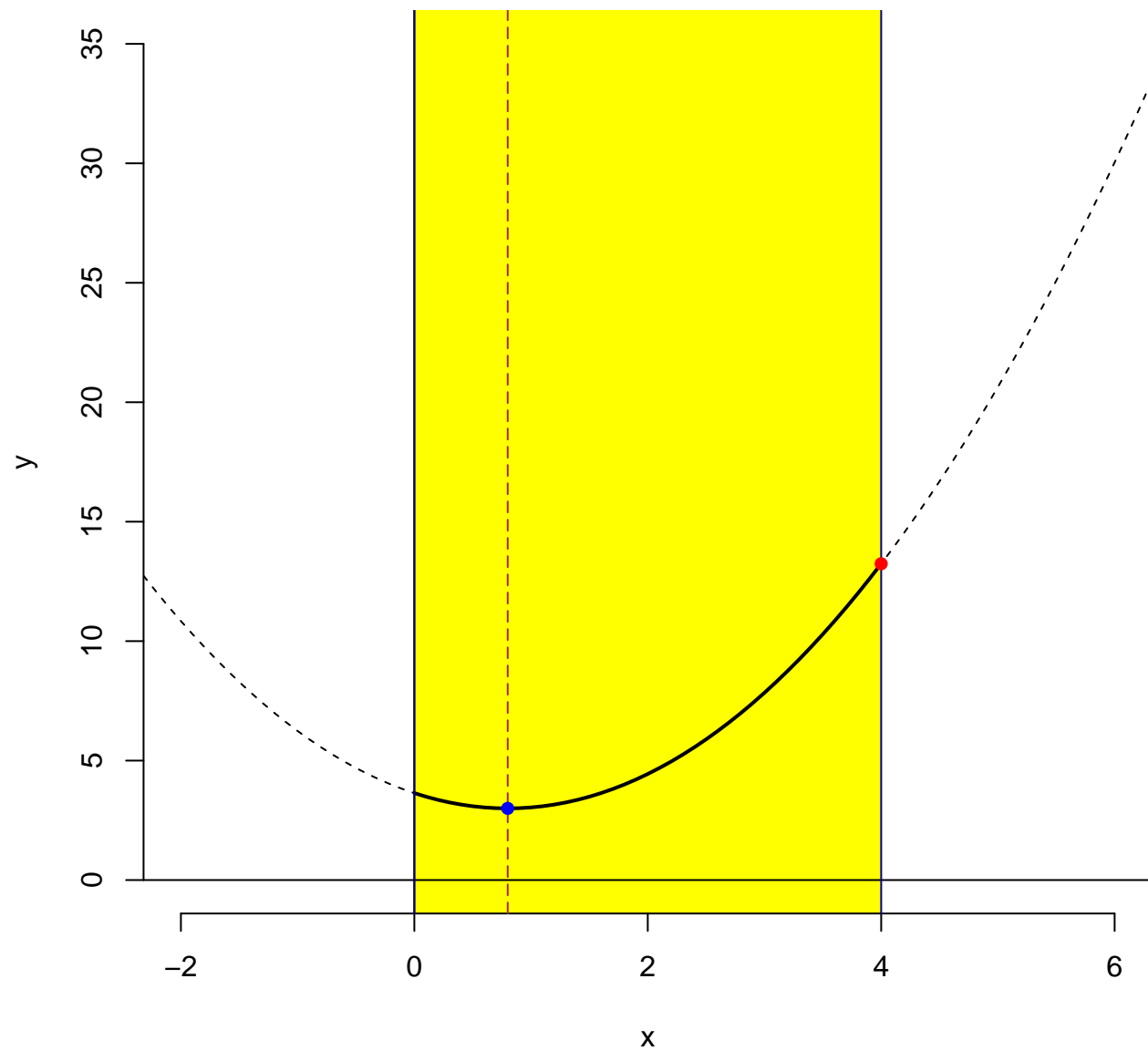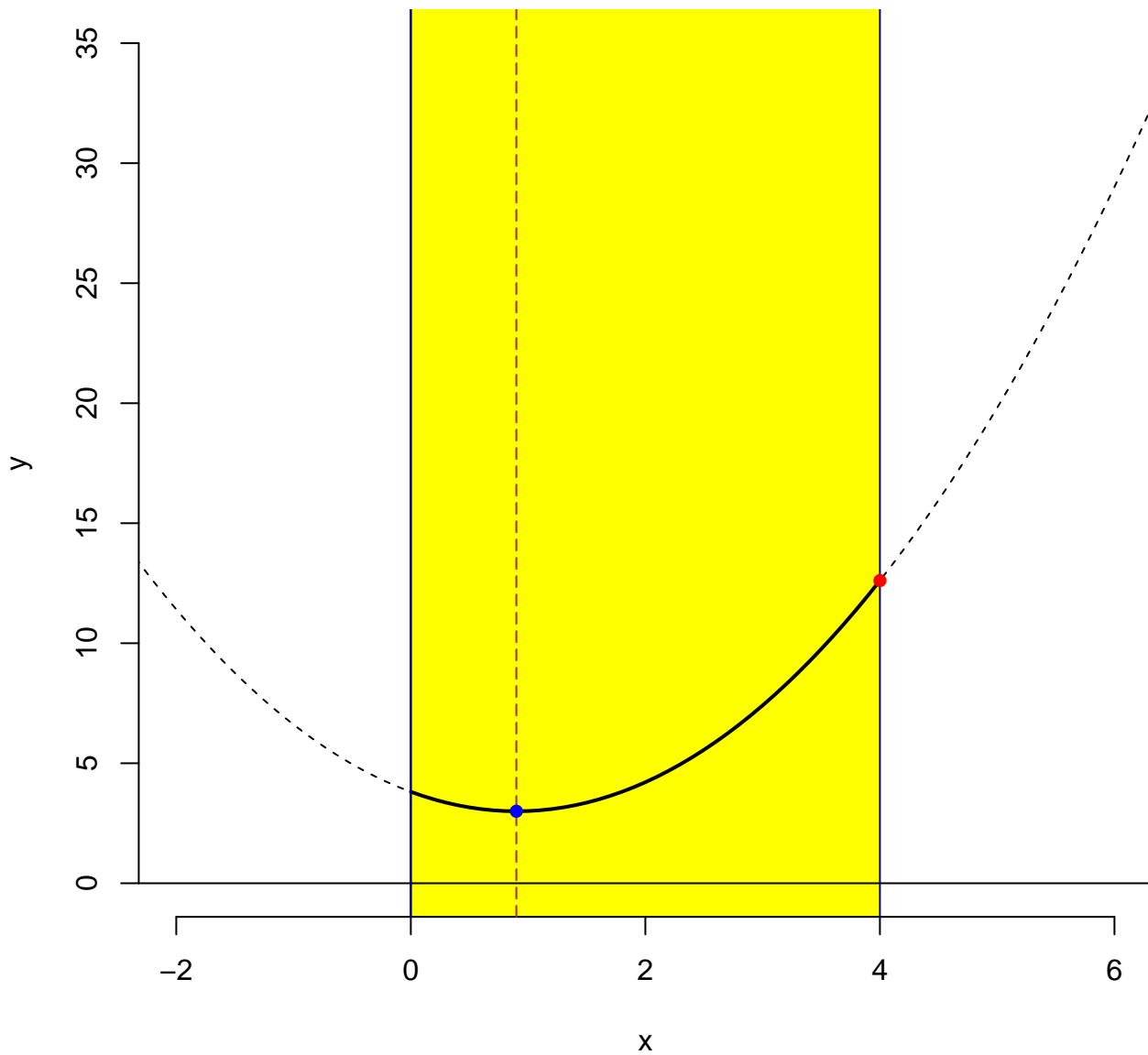
a = 0.6

a = 0.7
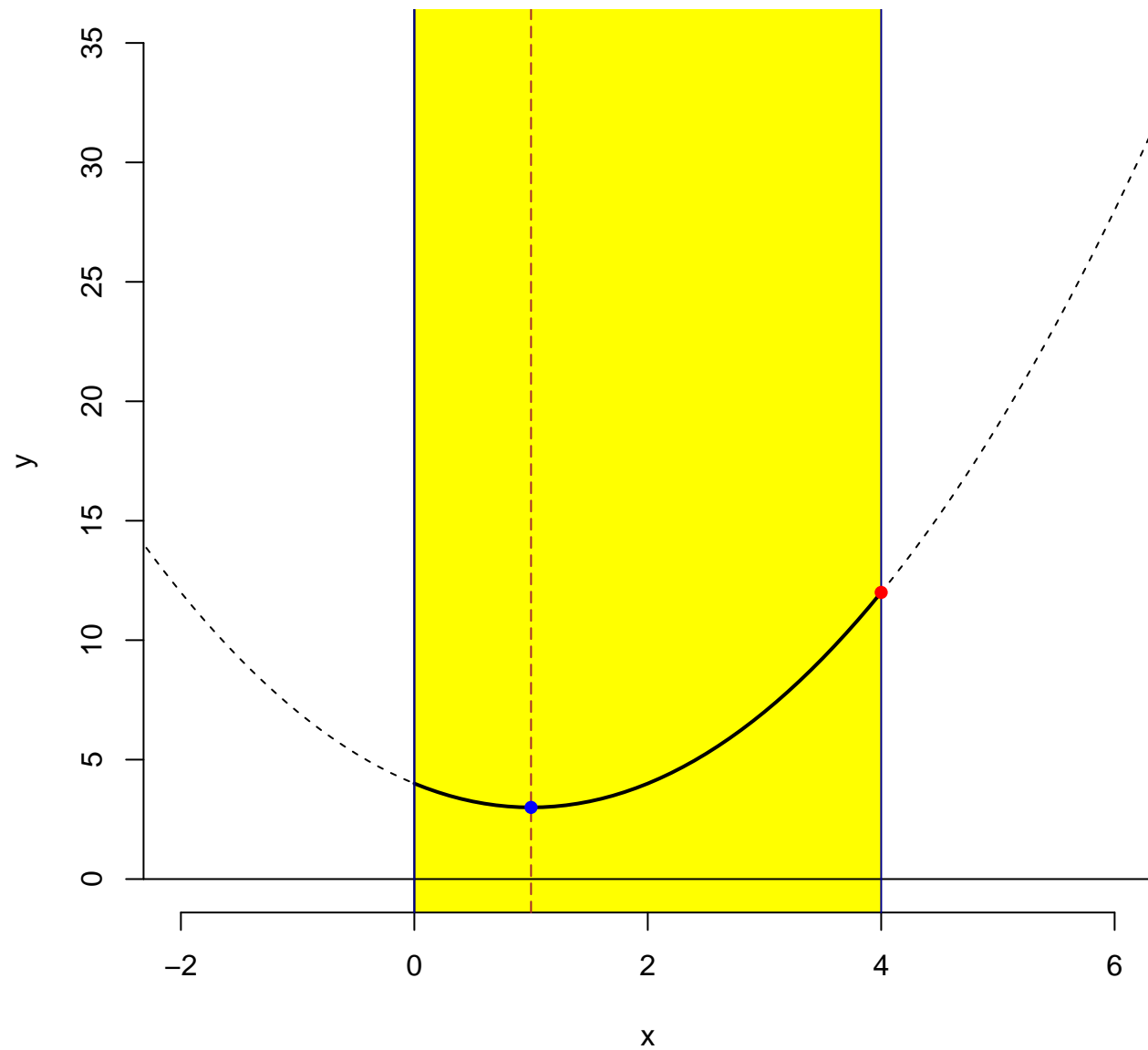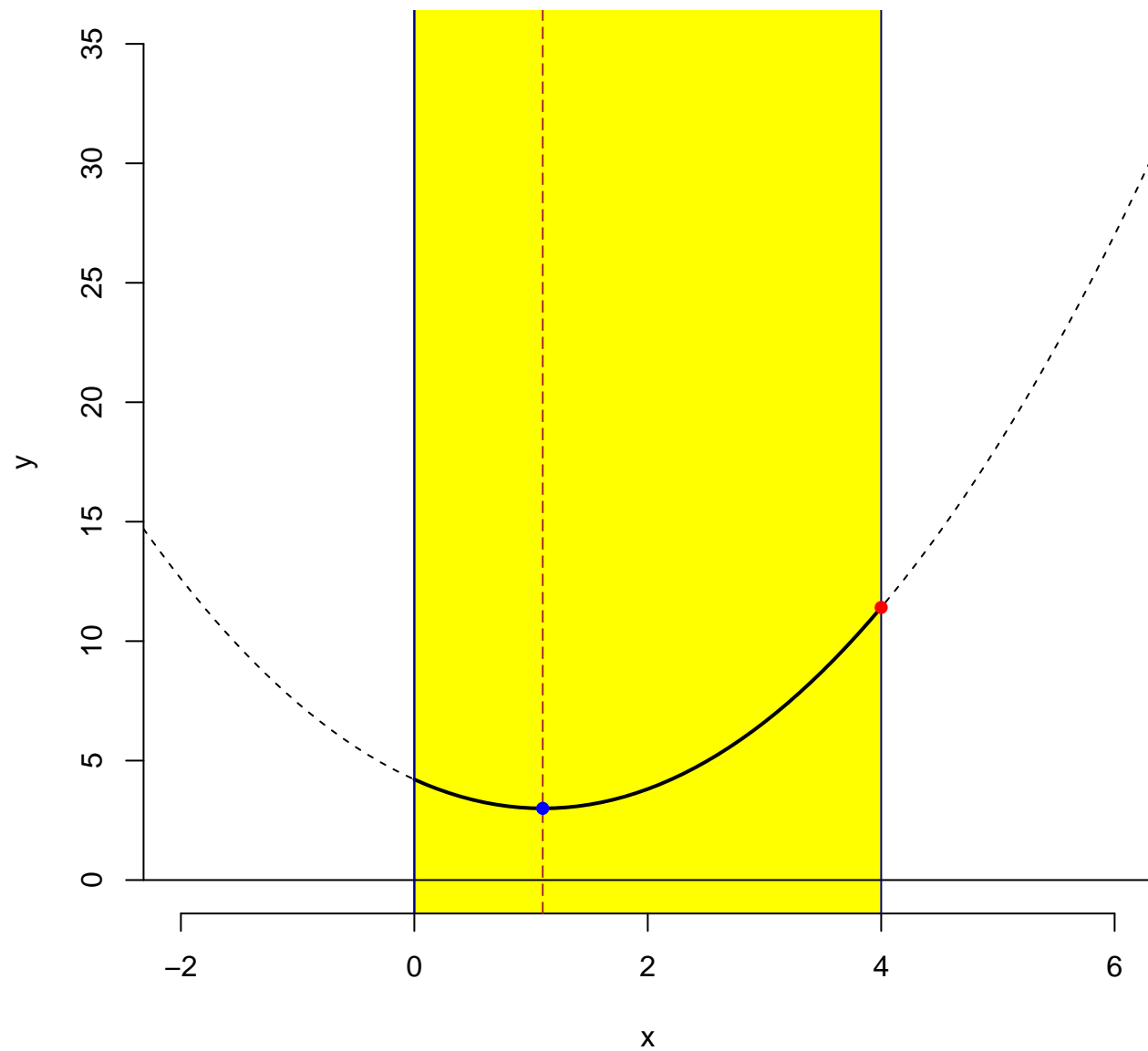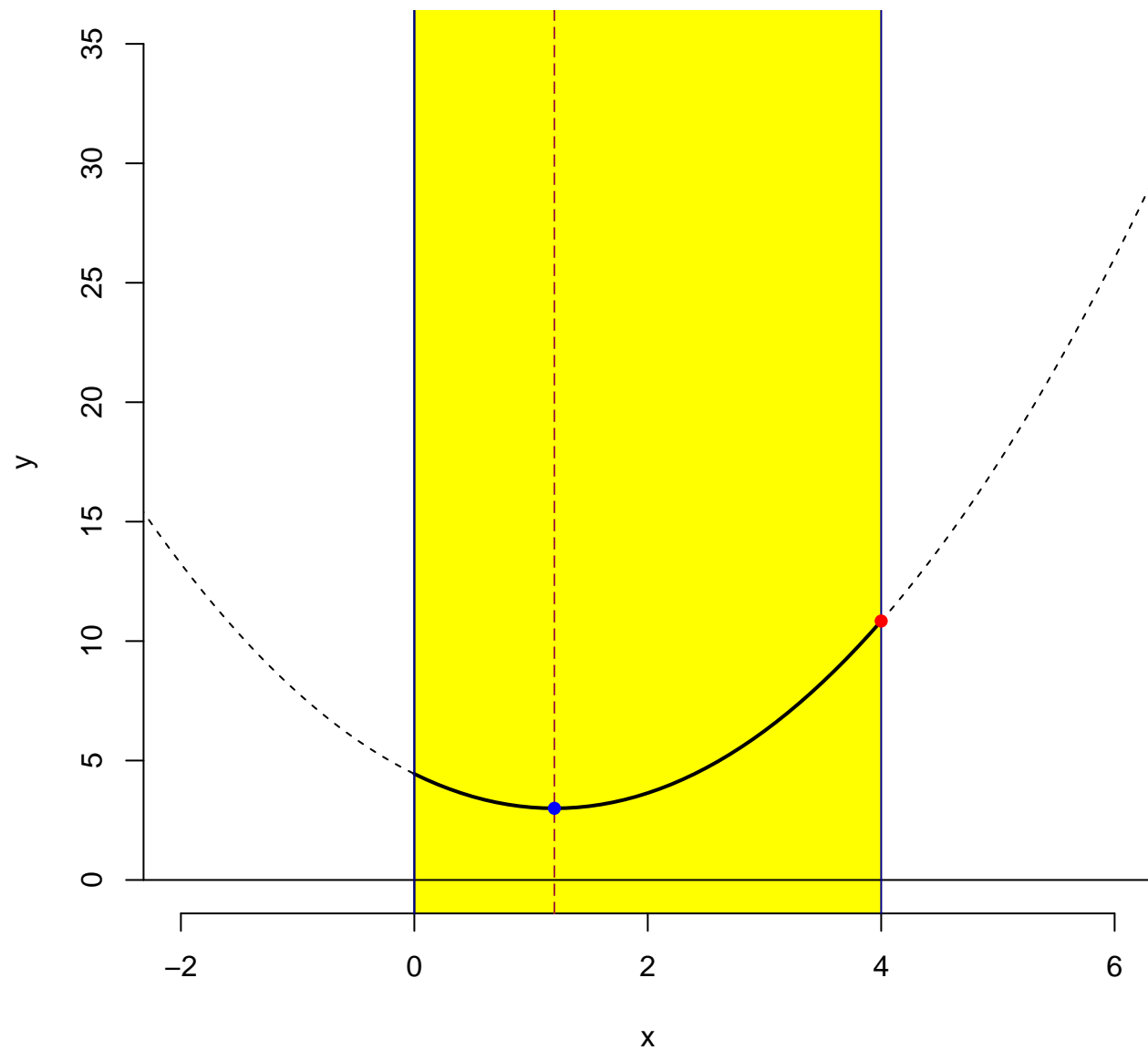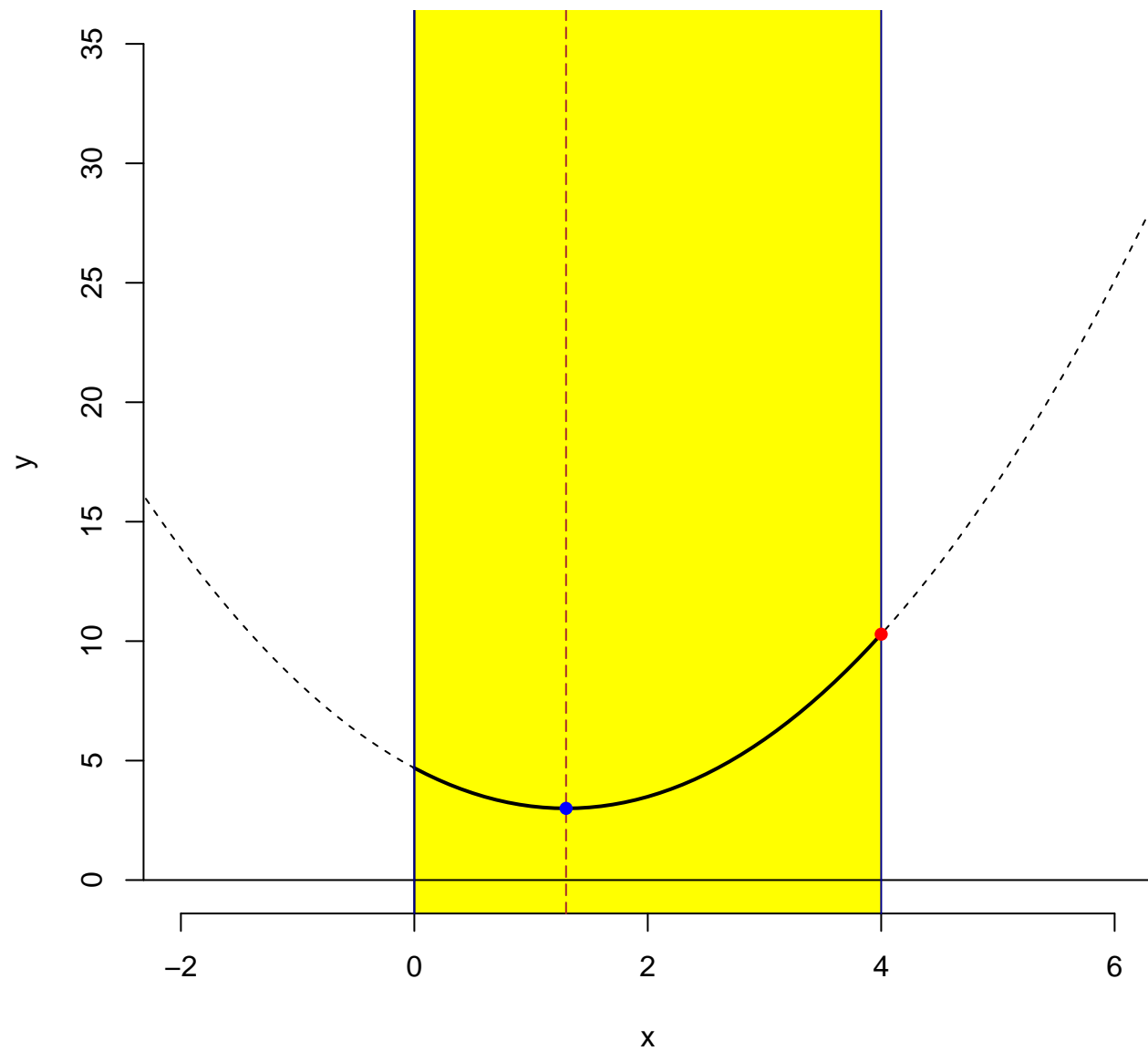
a = 0.8

a = 0.9

a = 1

a = 1.1

a = 1.2

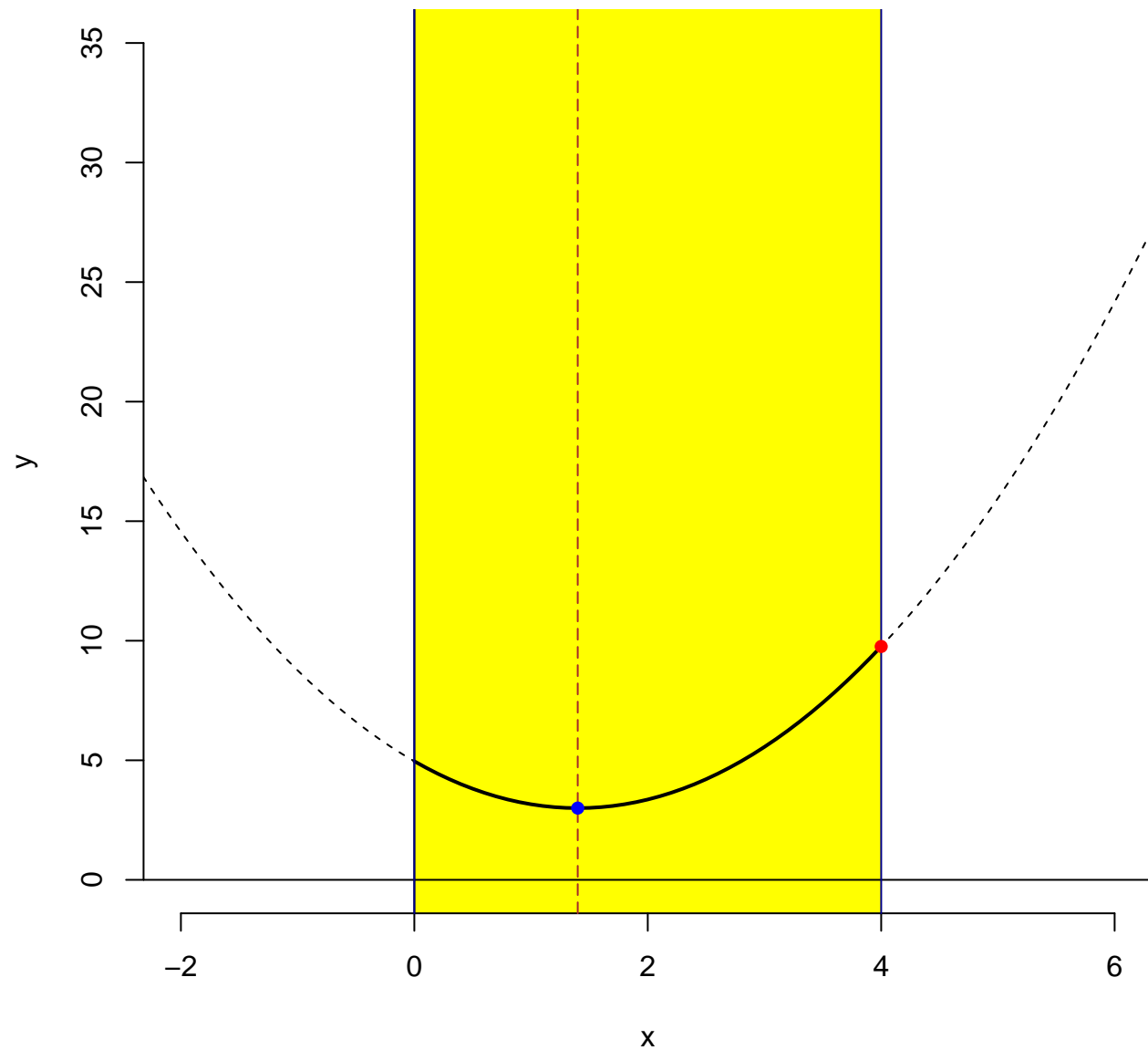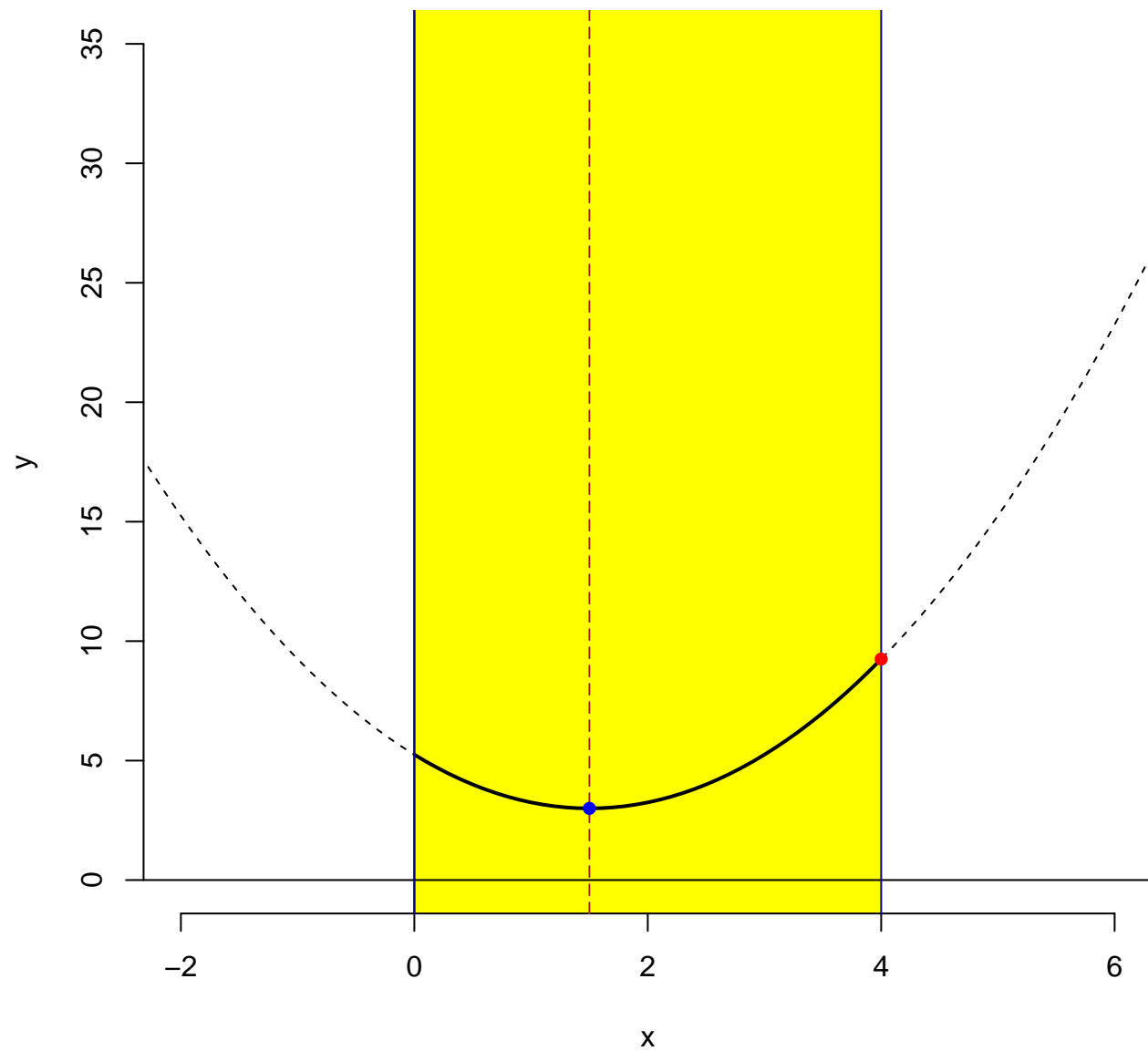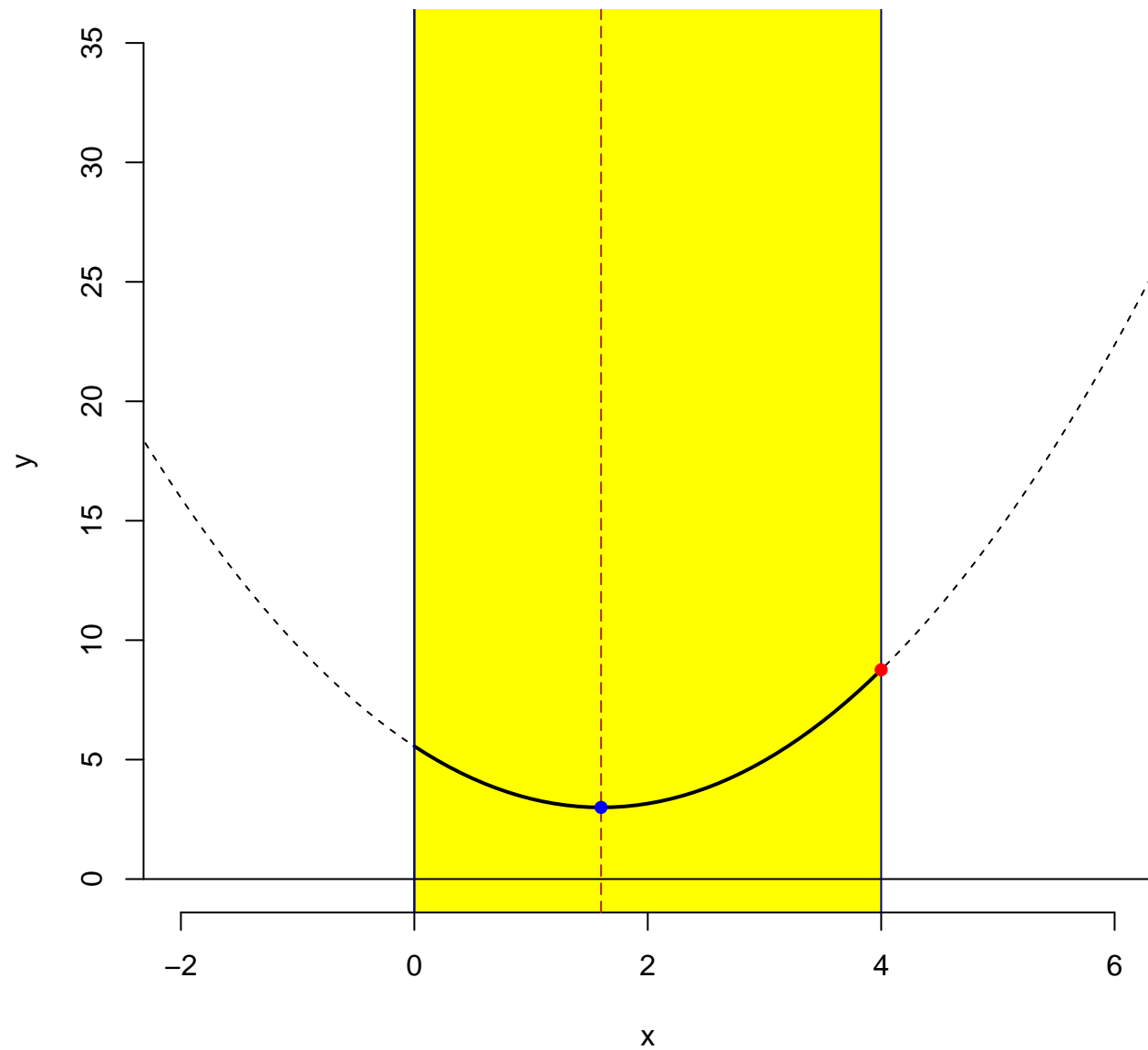**a = 1.3**

a = 1.4

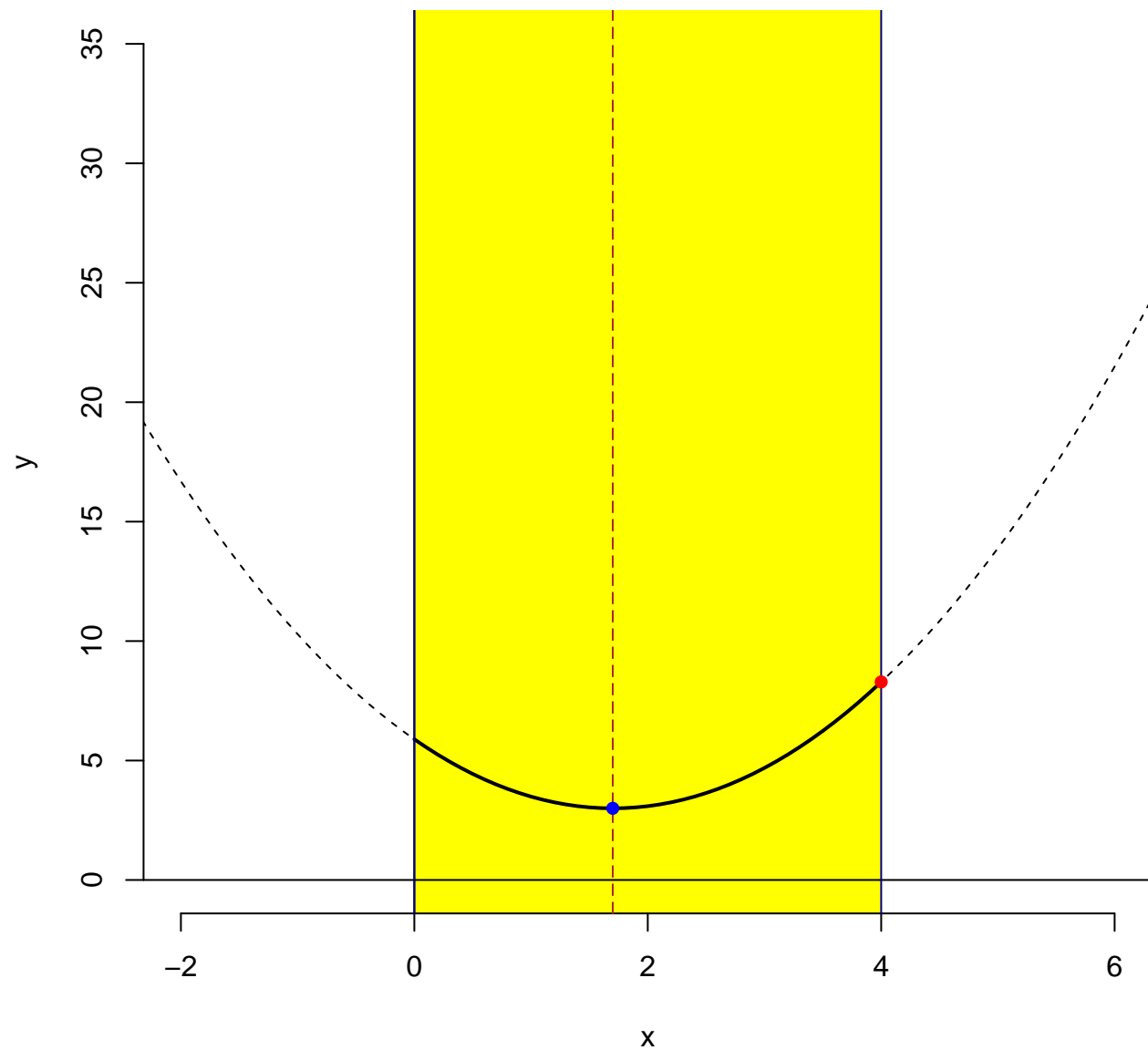**a = 1.5**

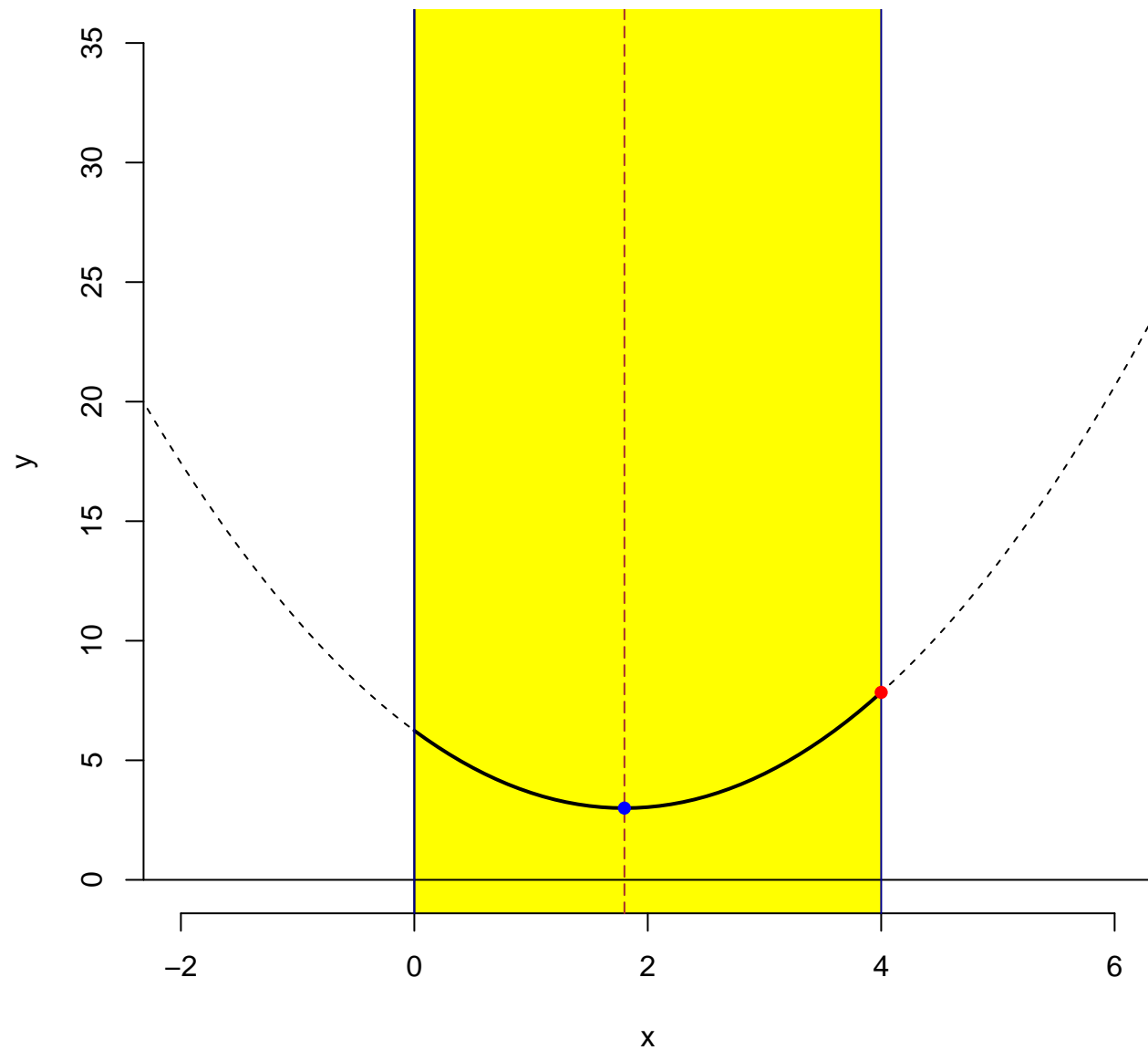**a = 1.6**

a = 1.7

a = 1.8

a = 1.9

a = 2

Two maximum points at x = 0
and x = 4 respectively
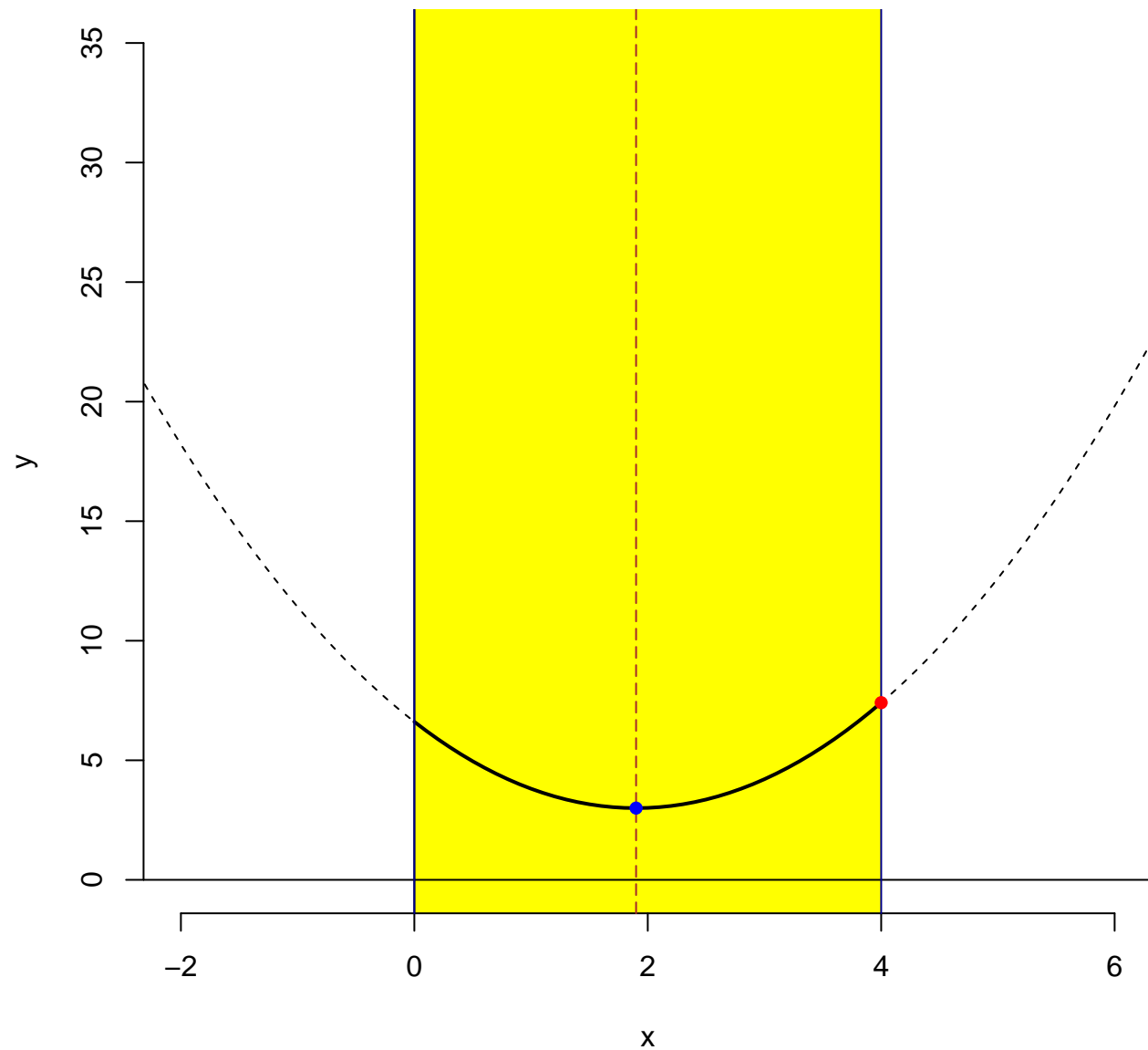
a = 2.1

a = 2.2

a = 2.3

a = 2.4

a = 2.5

a = 2.6

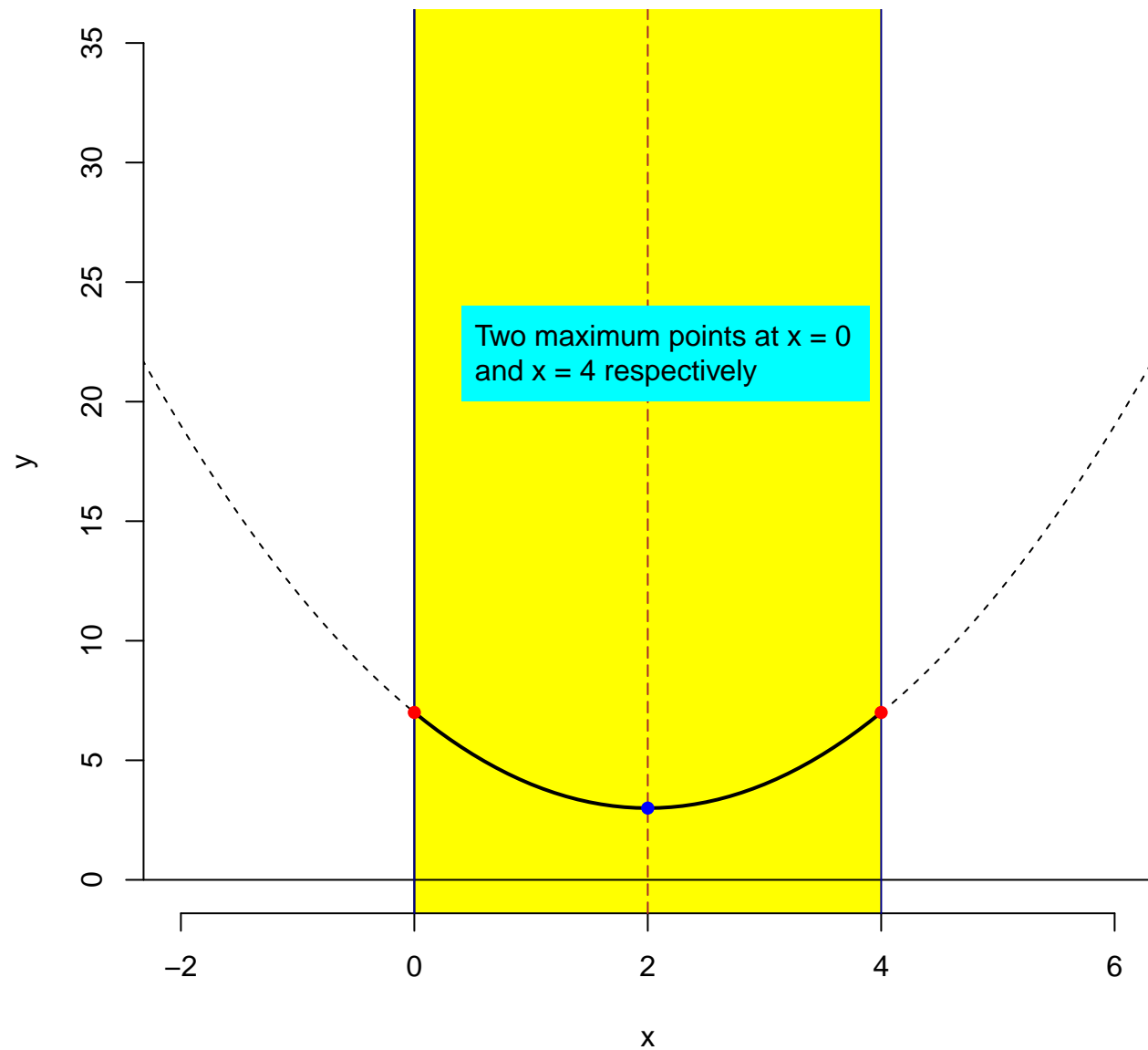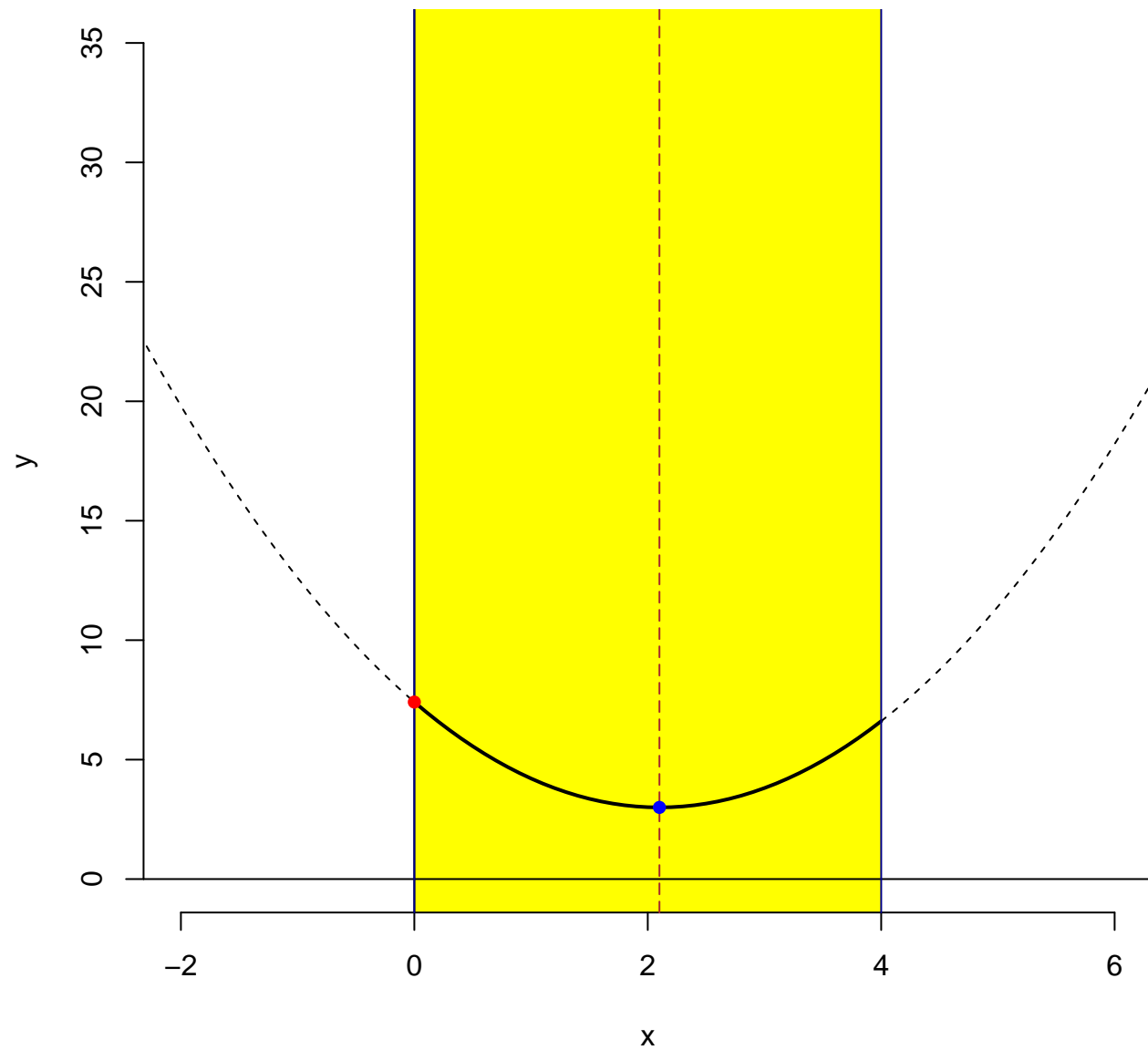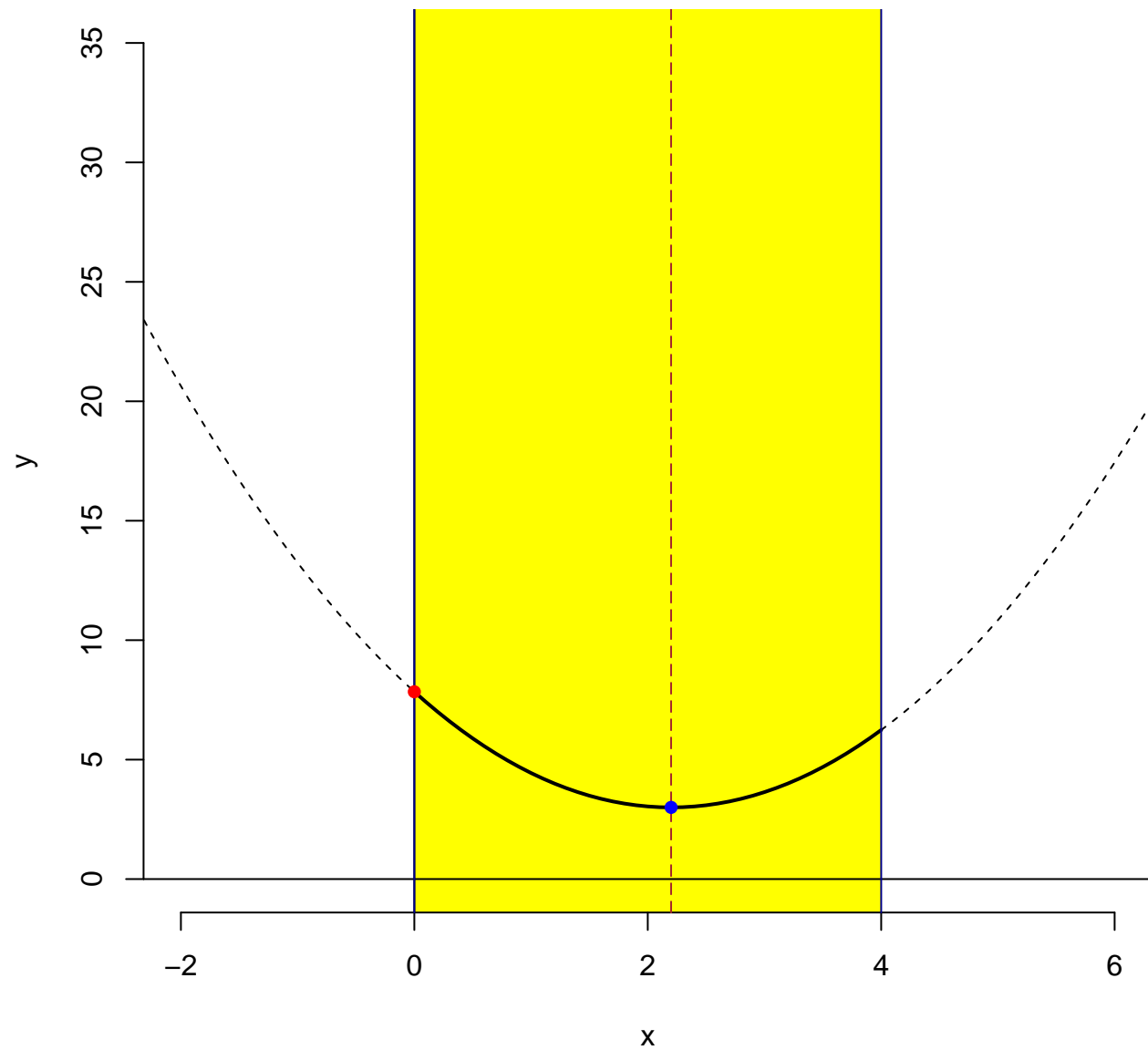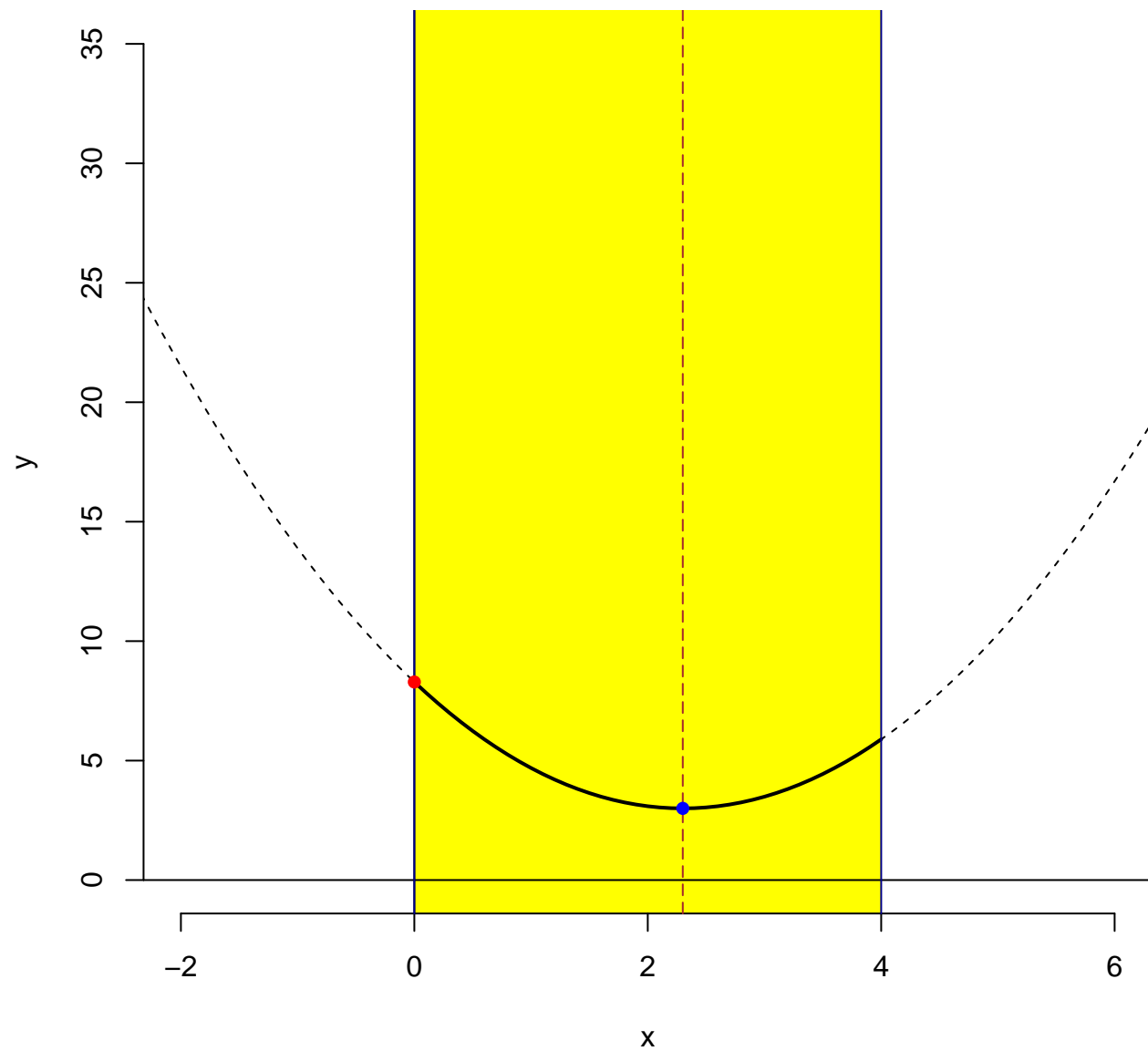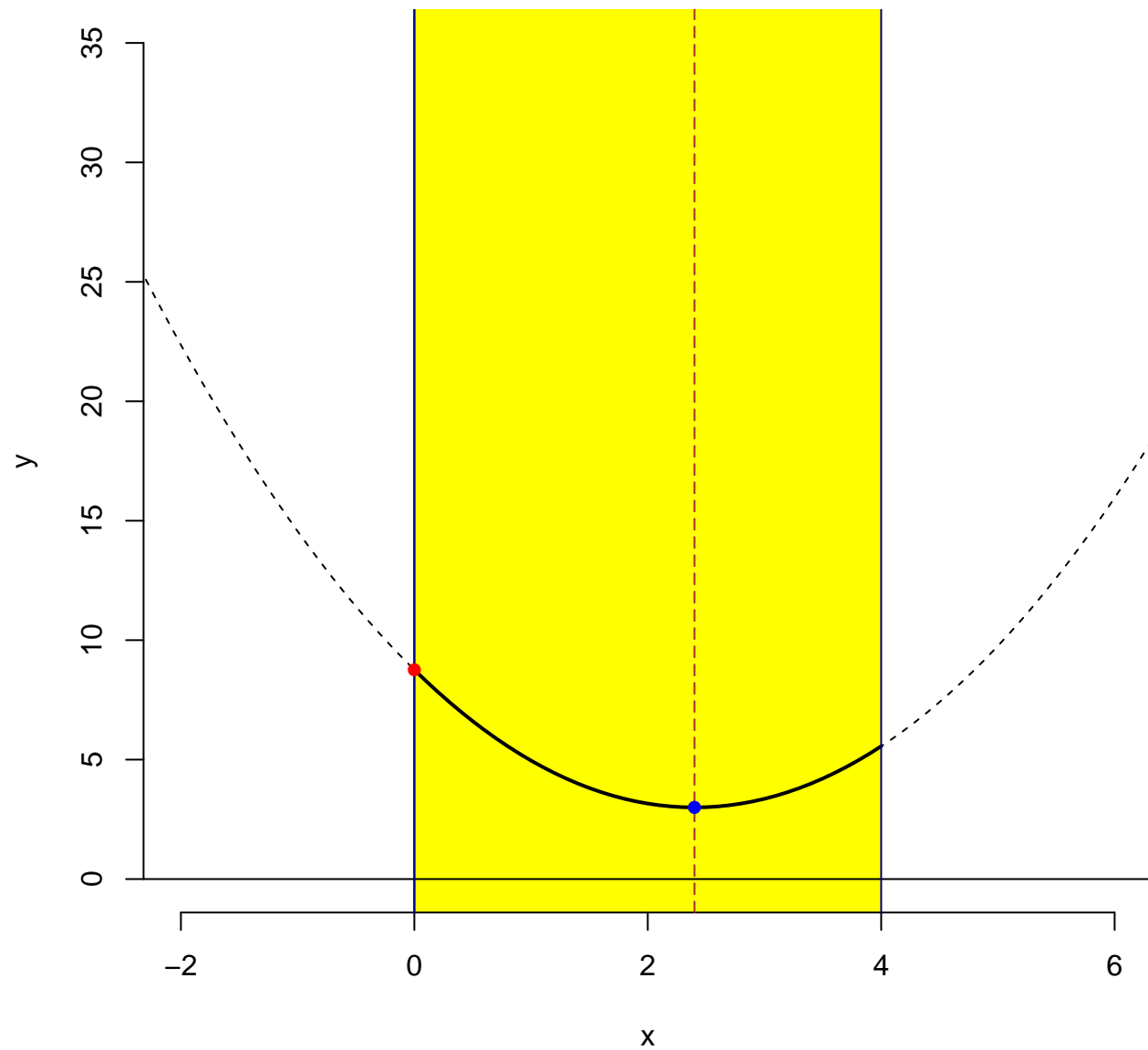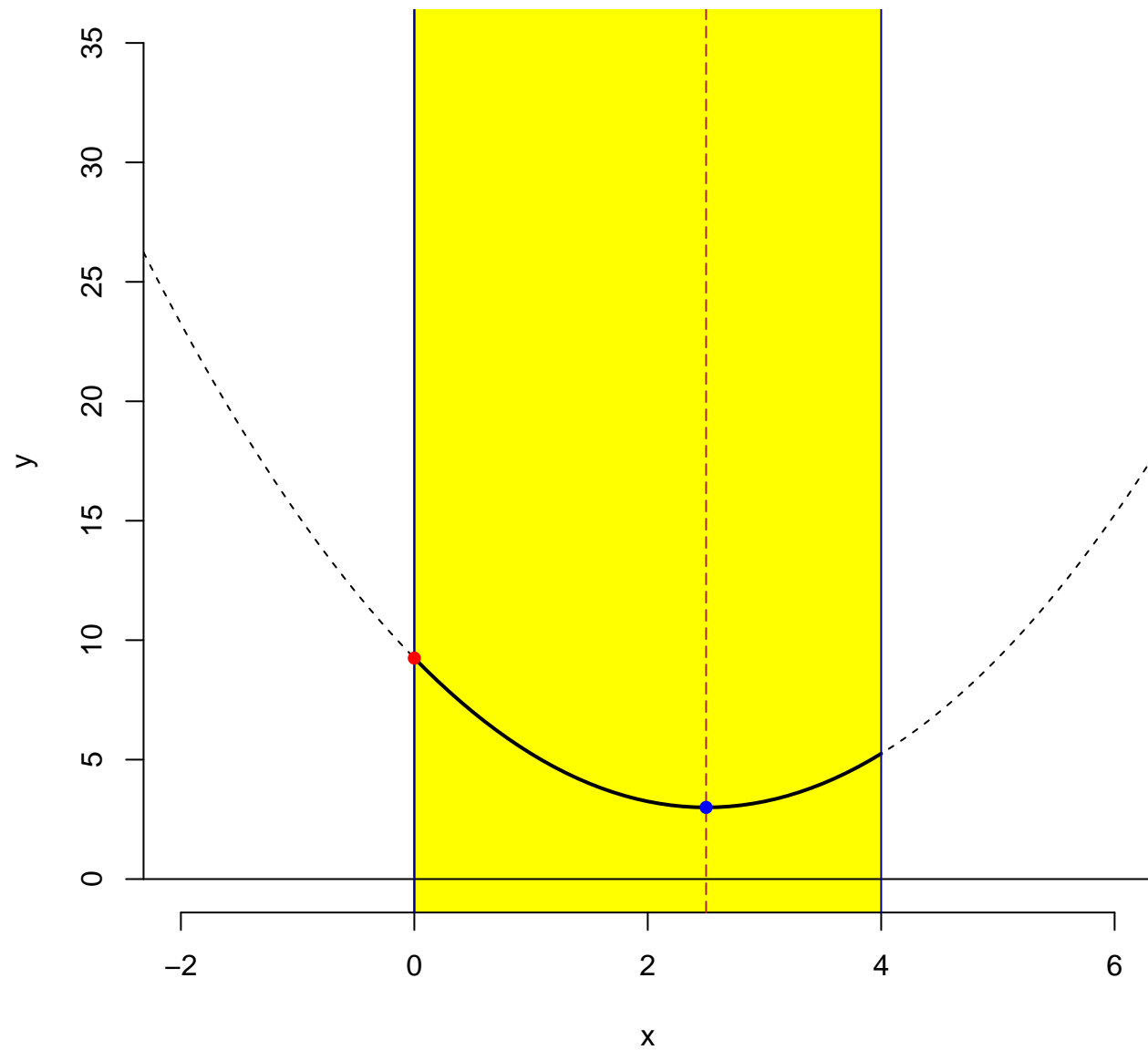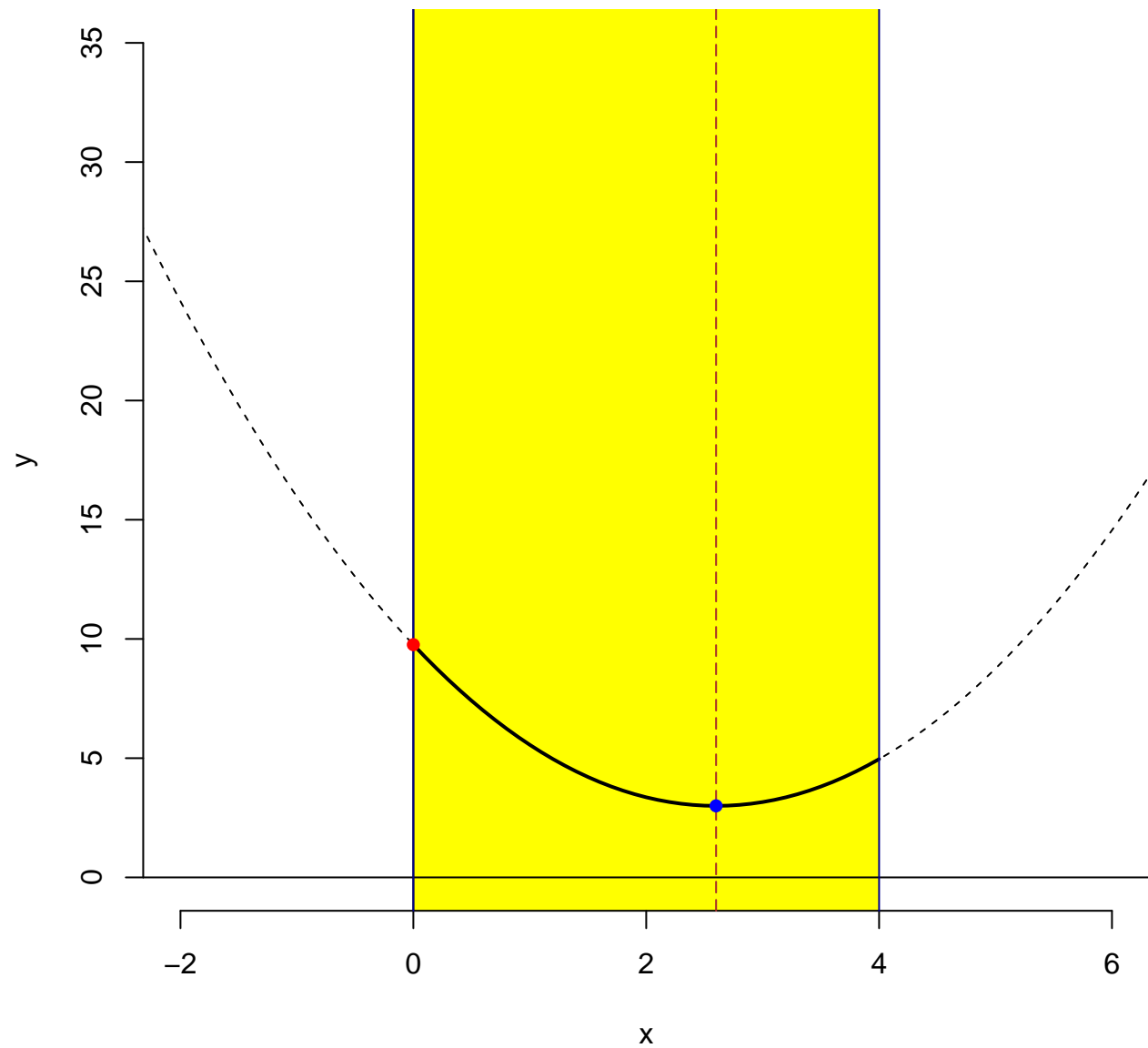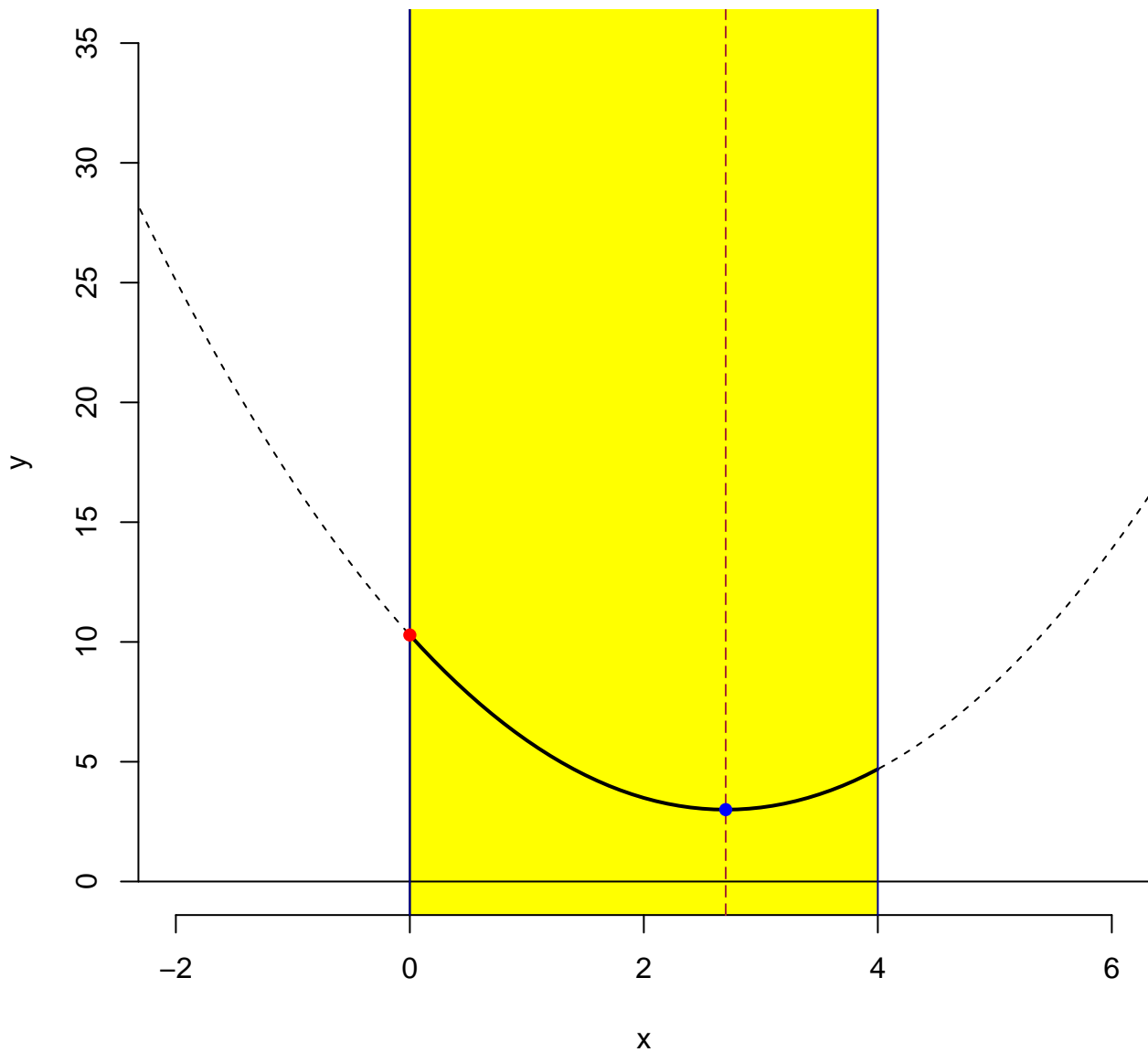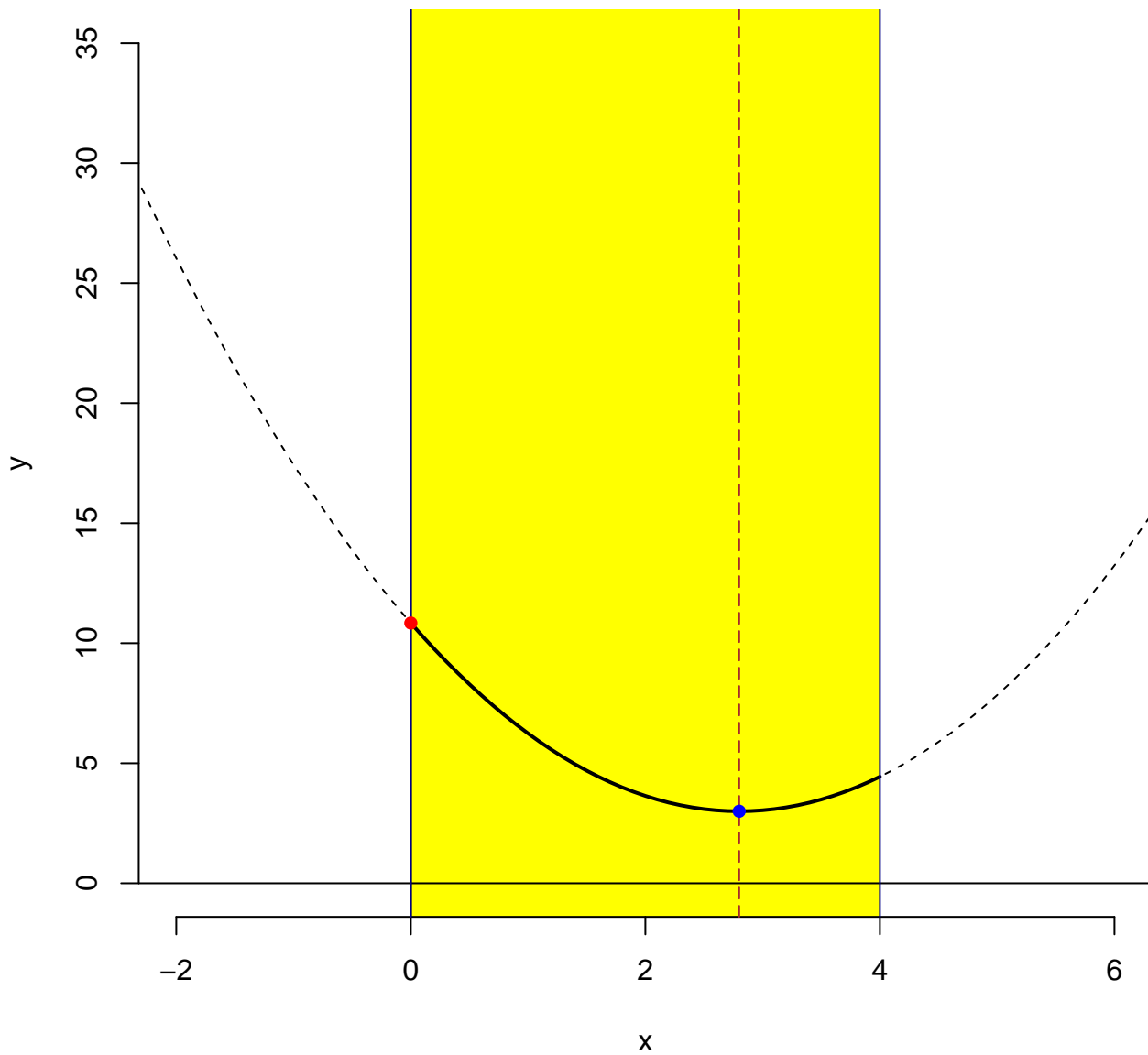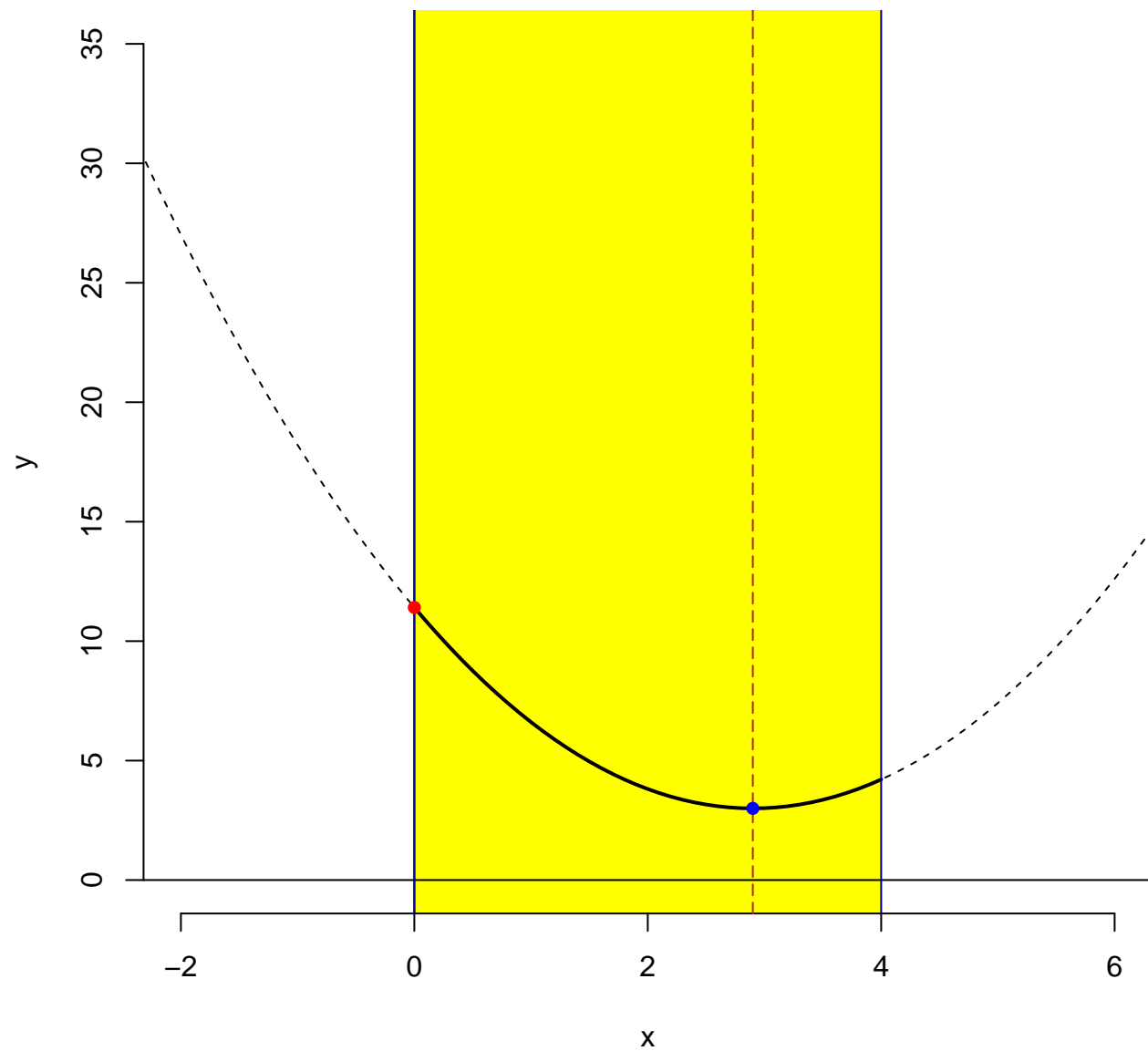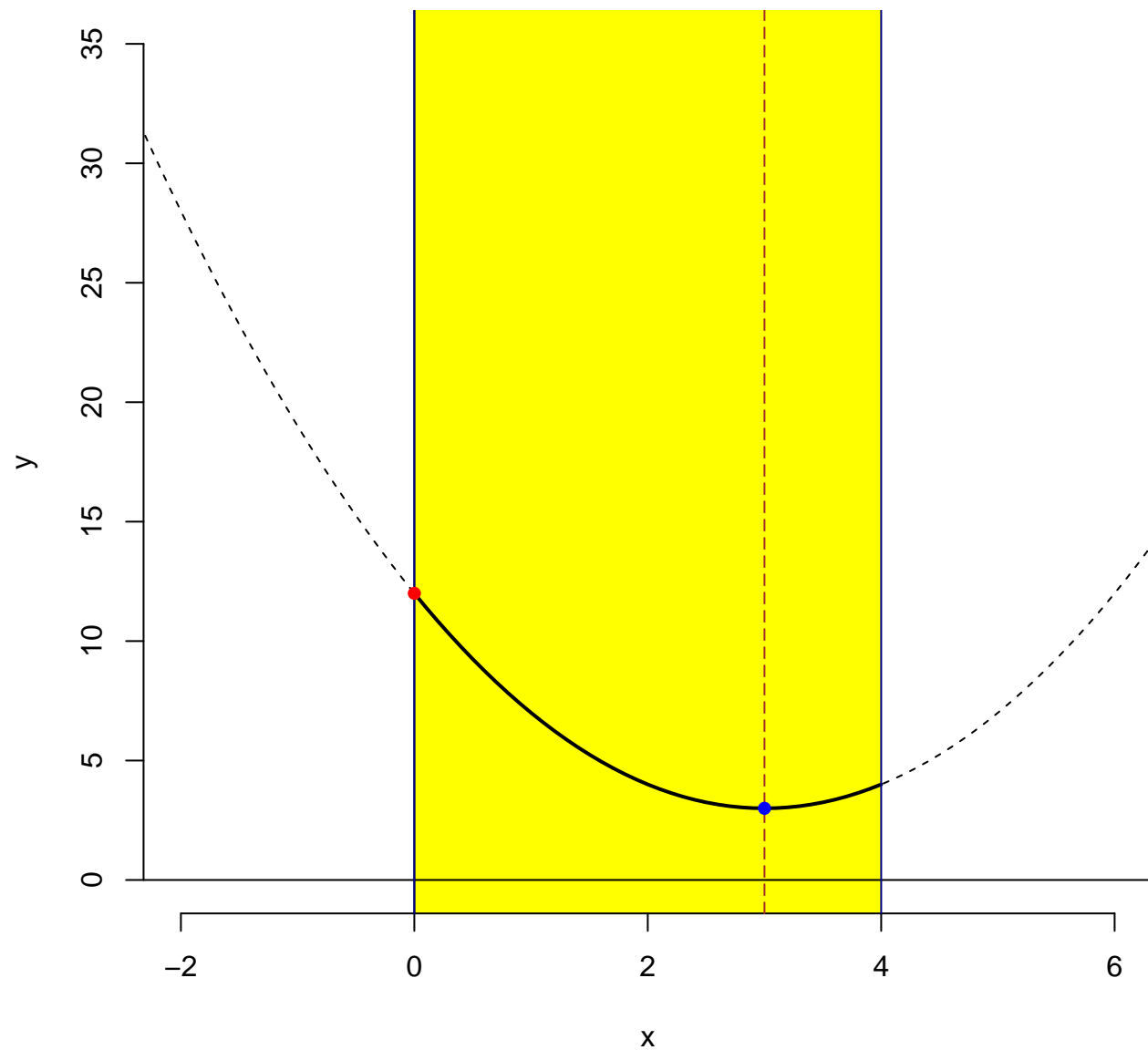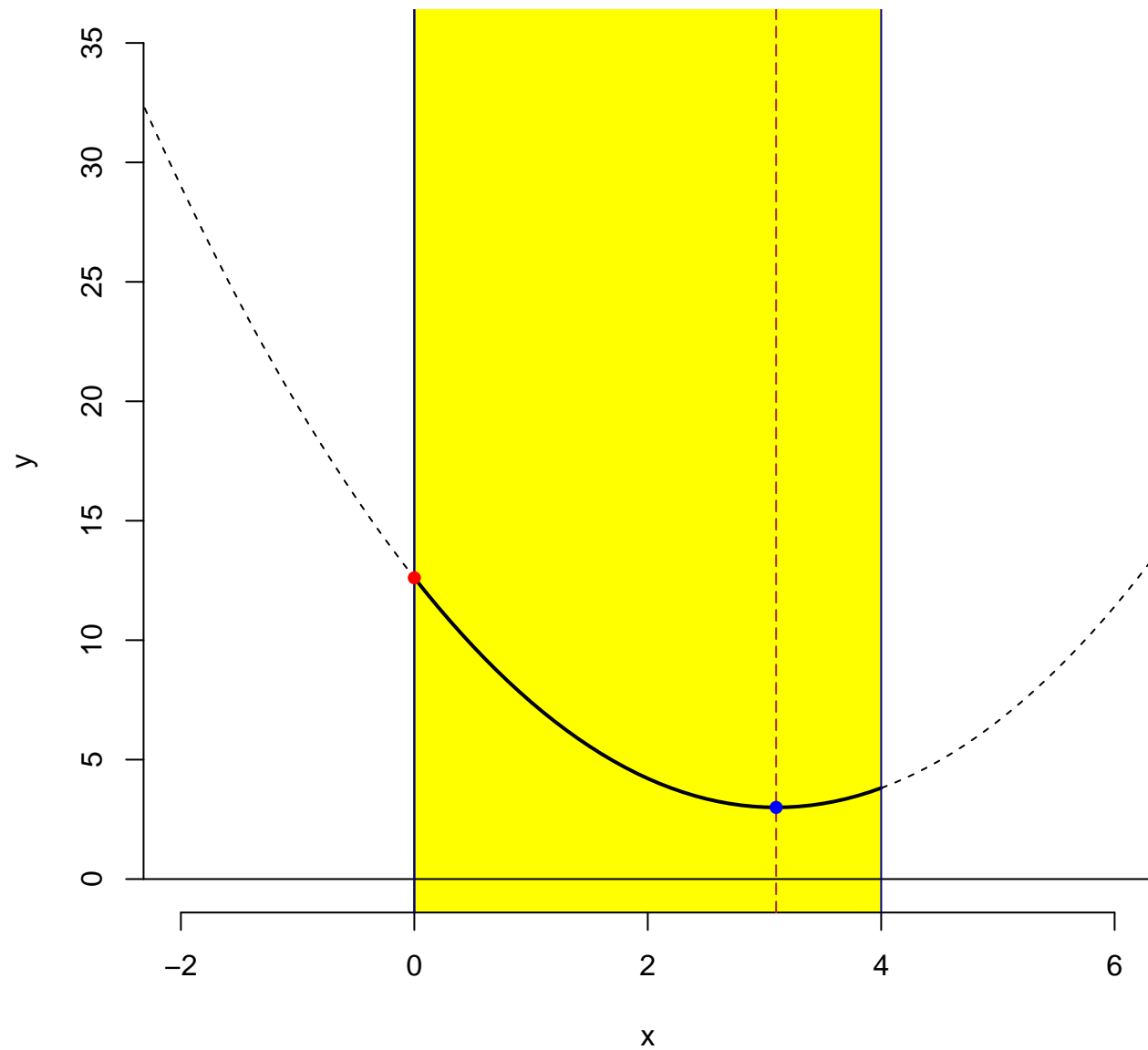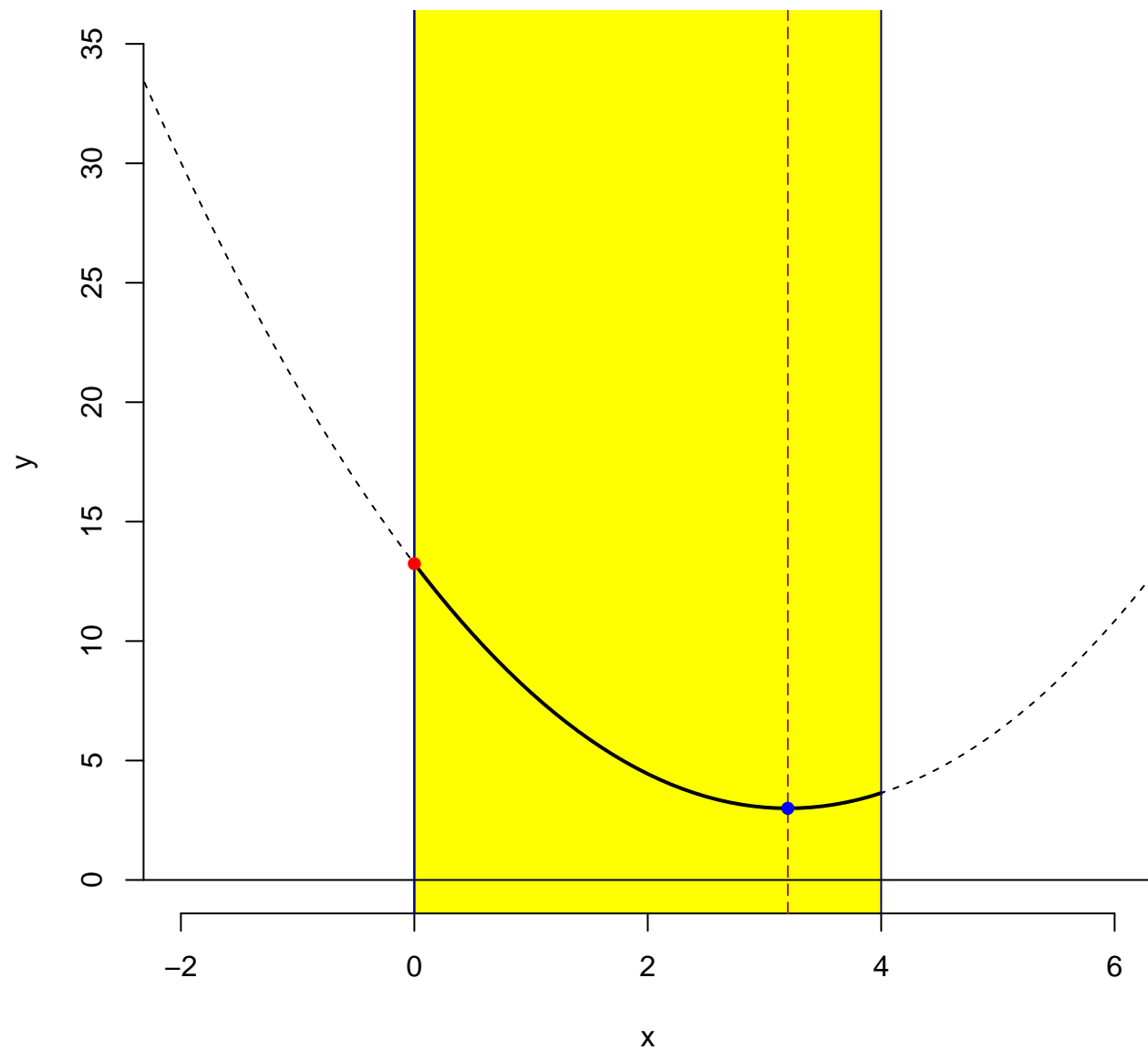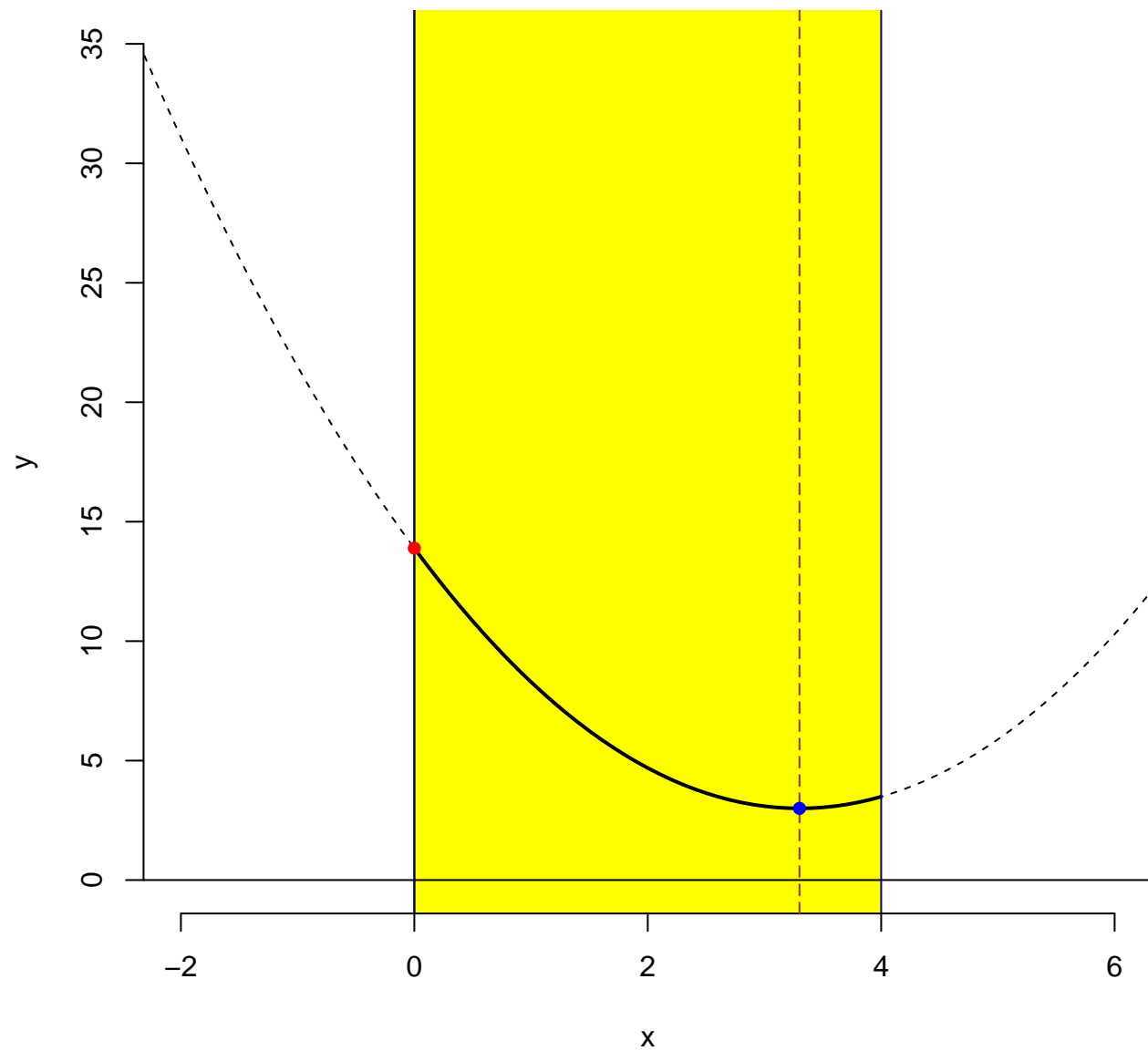**a = 2.7**

a = 2.8

a = 2.9

a = 3

a = 3.1

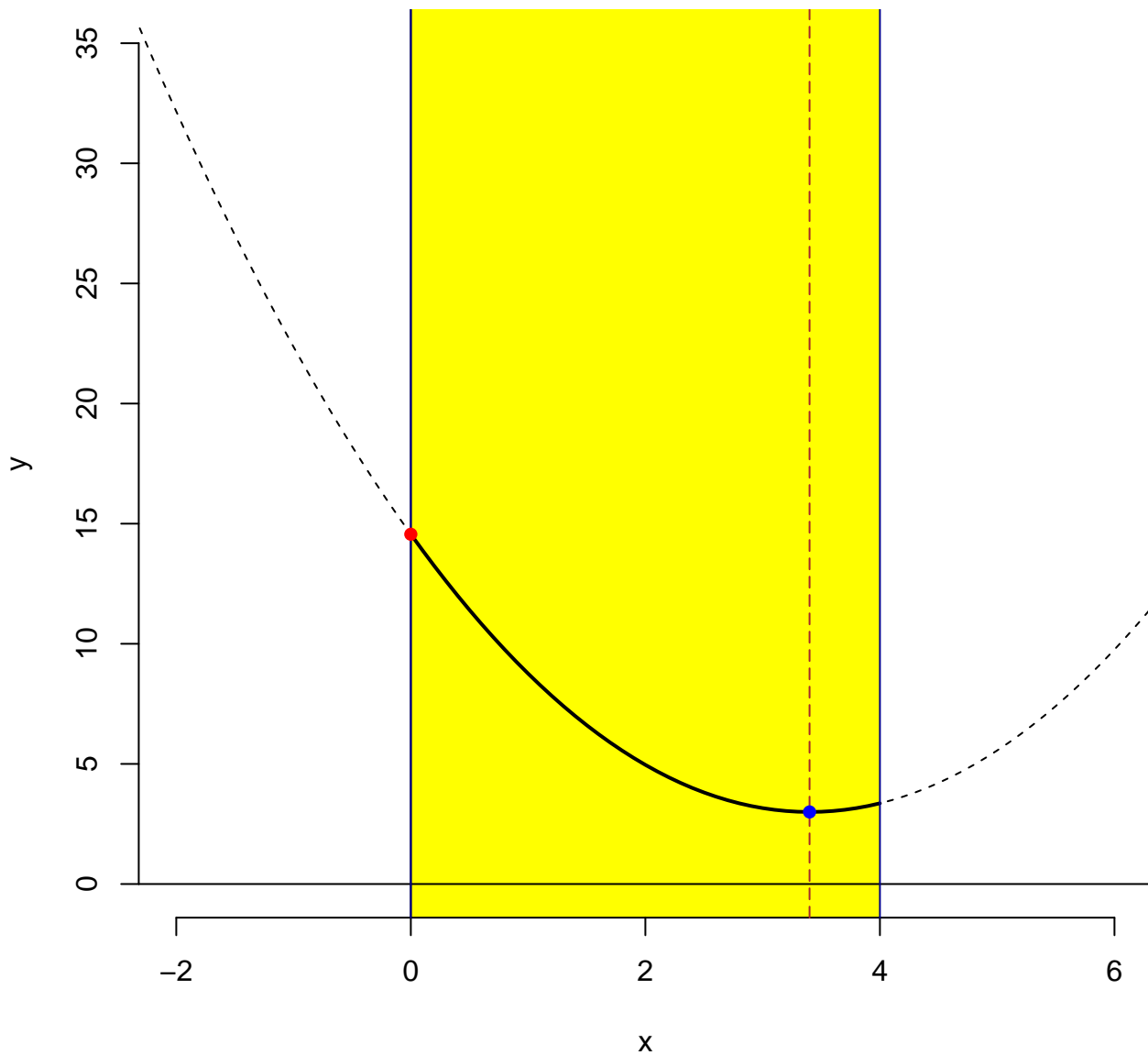**a = 3.2**

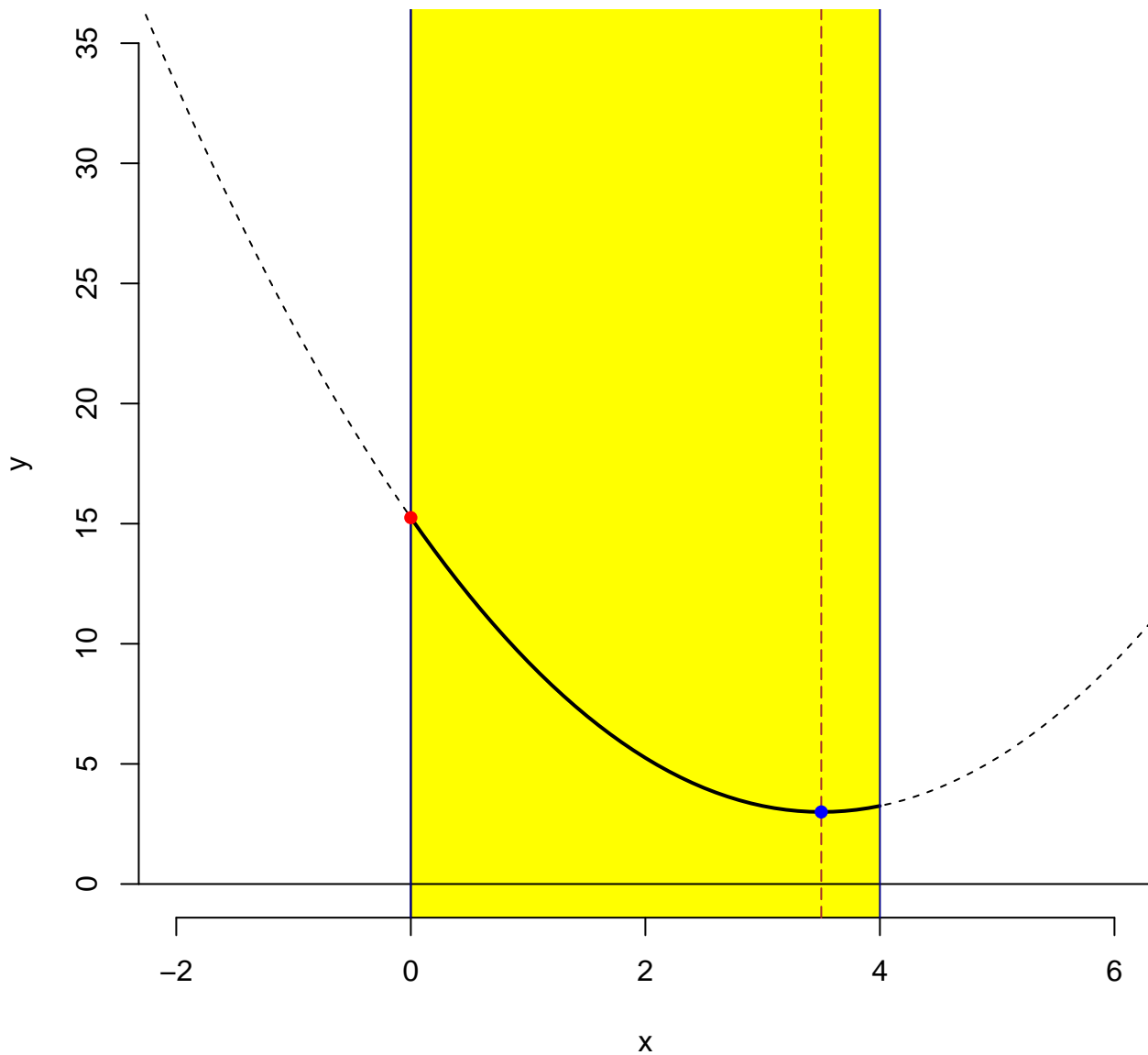**a = 3.3**

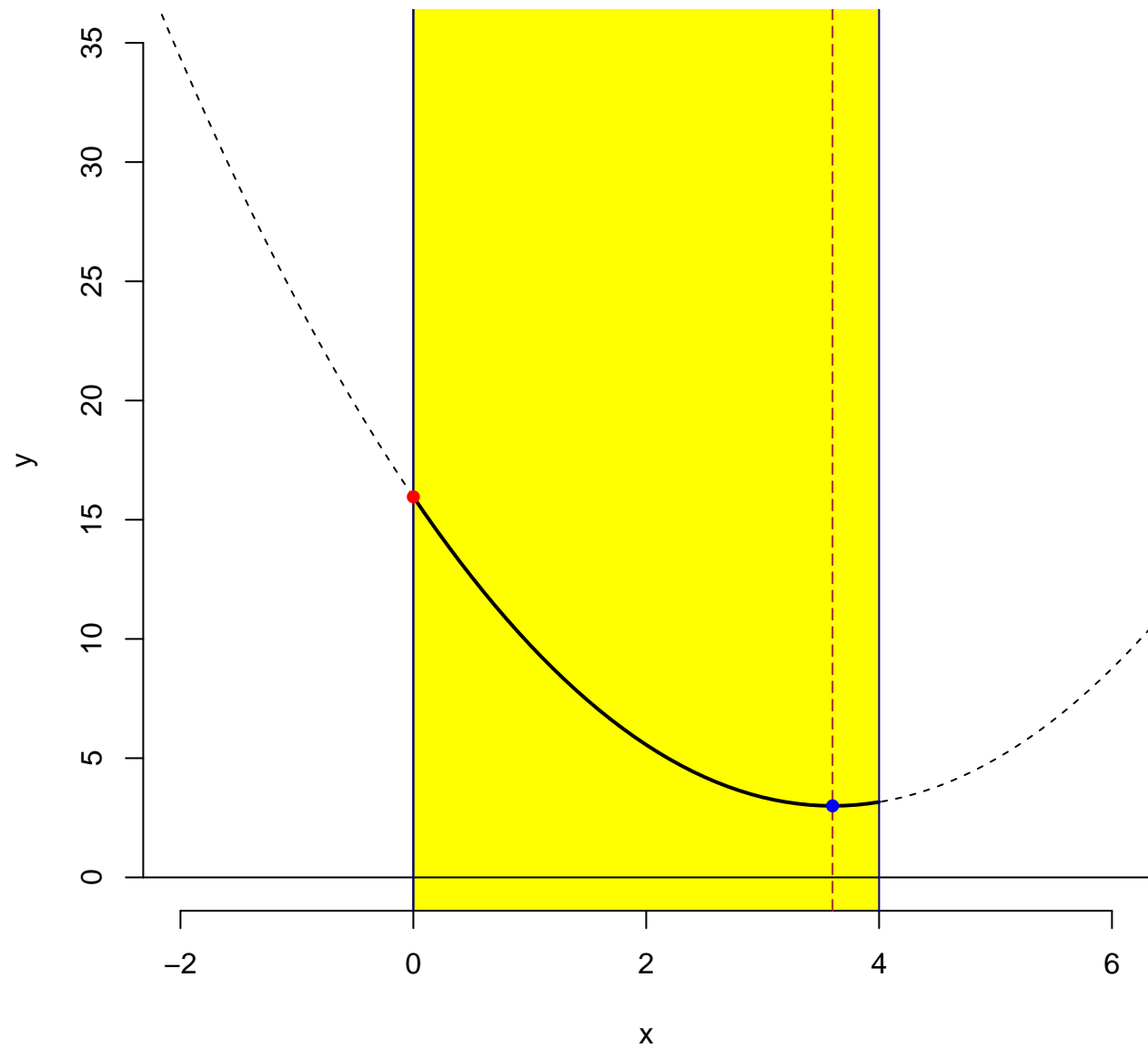**a = 3.4**

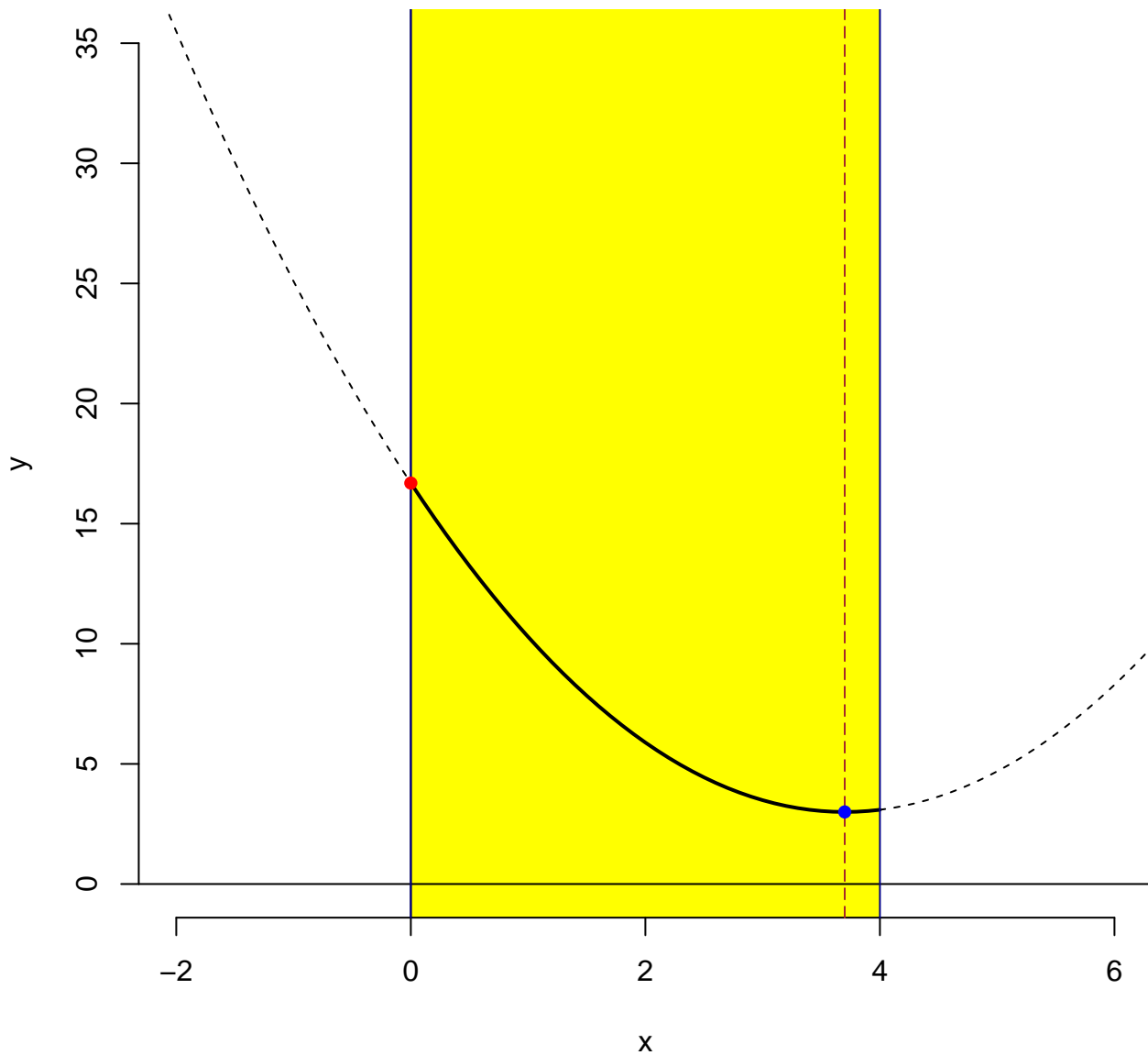**a = 3.5**

a = 3.6

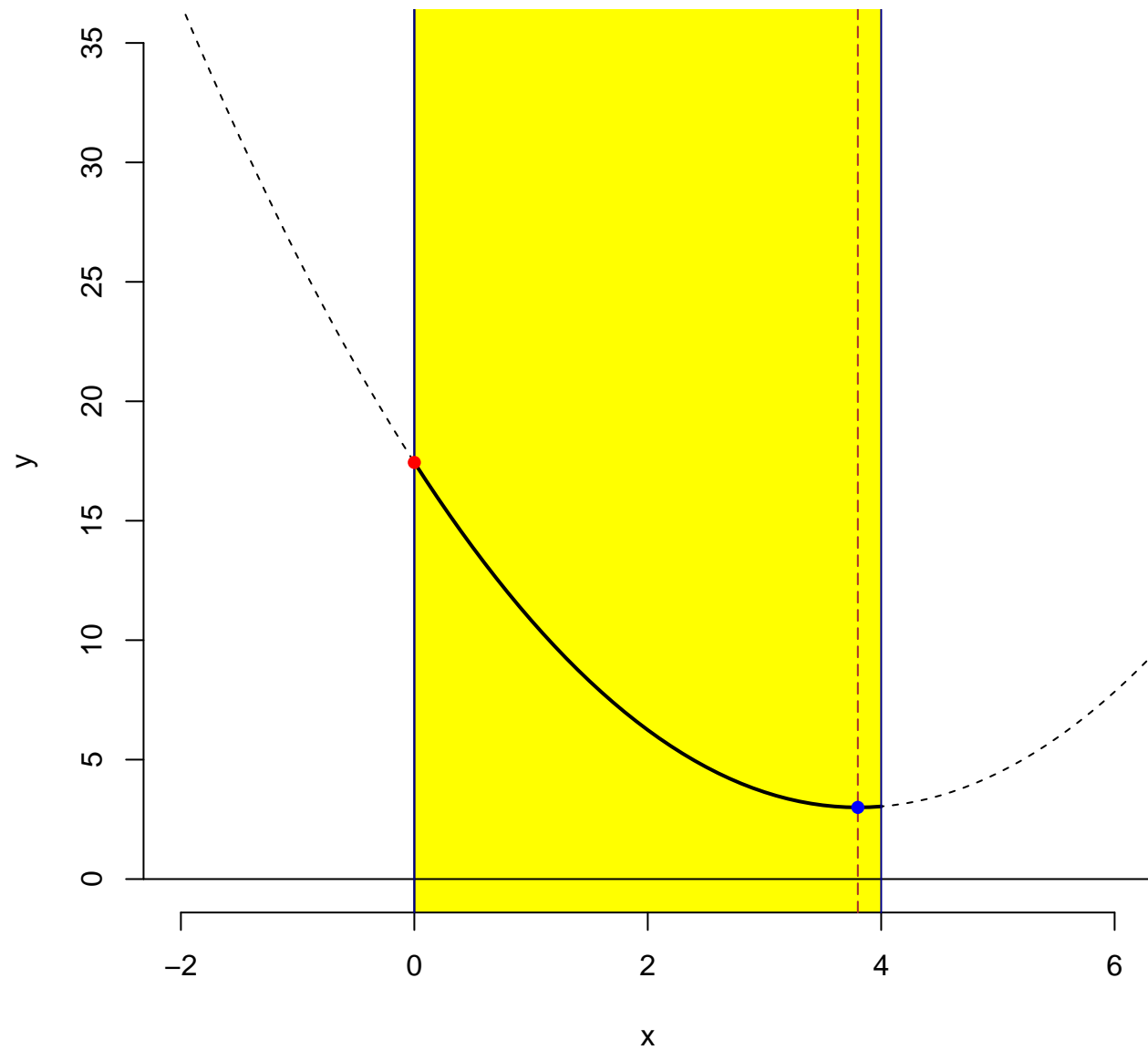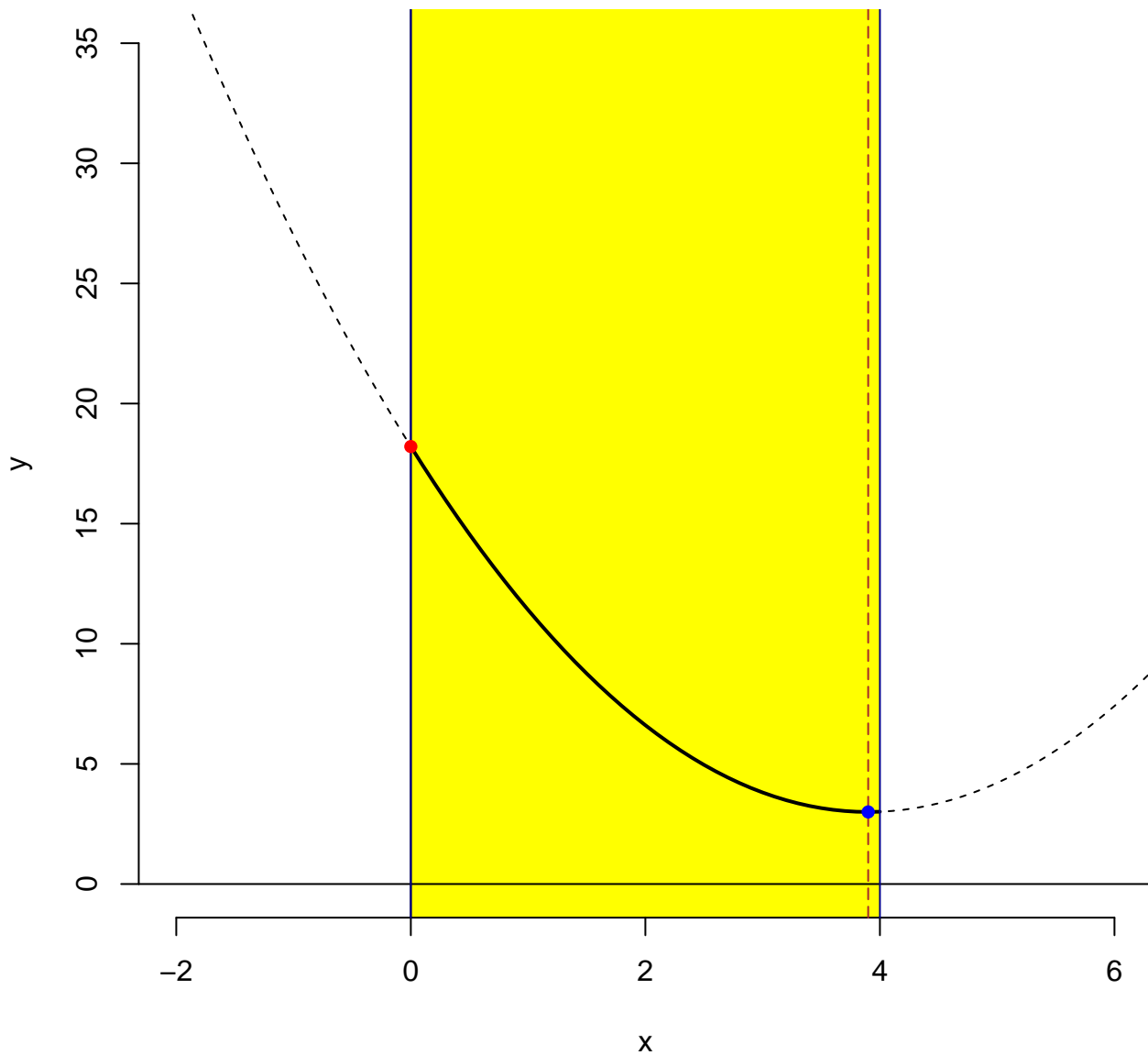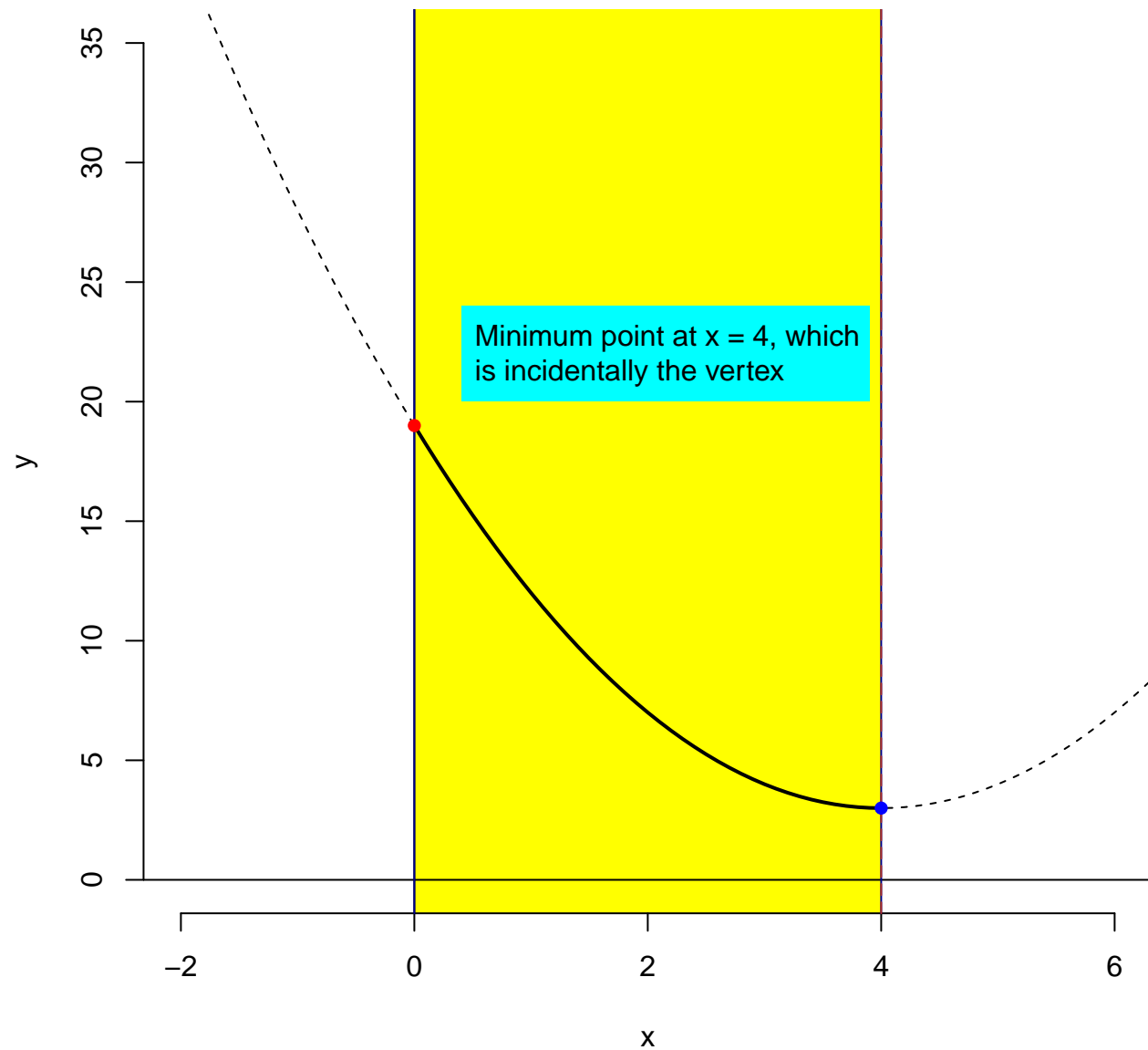**a = 3.7**

a = 3.8

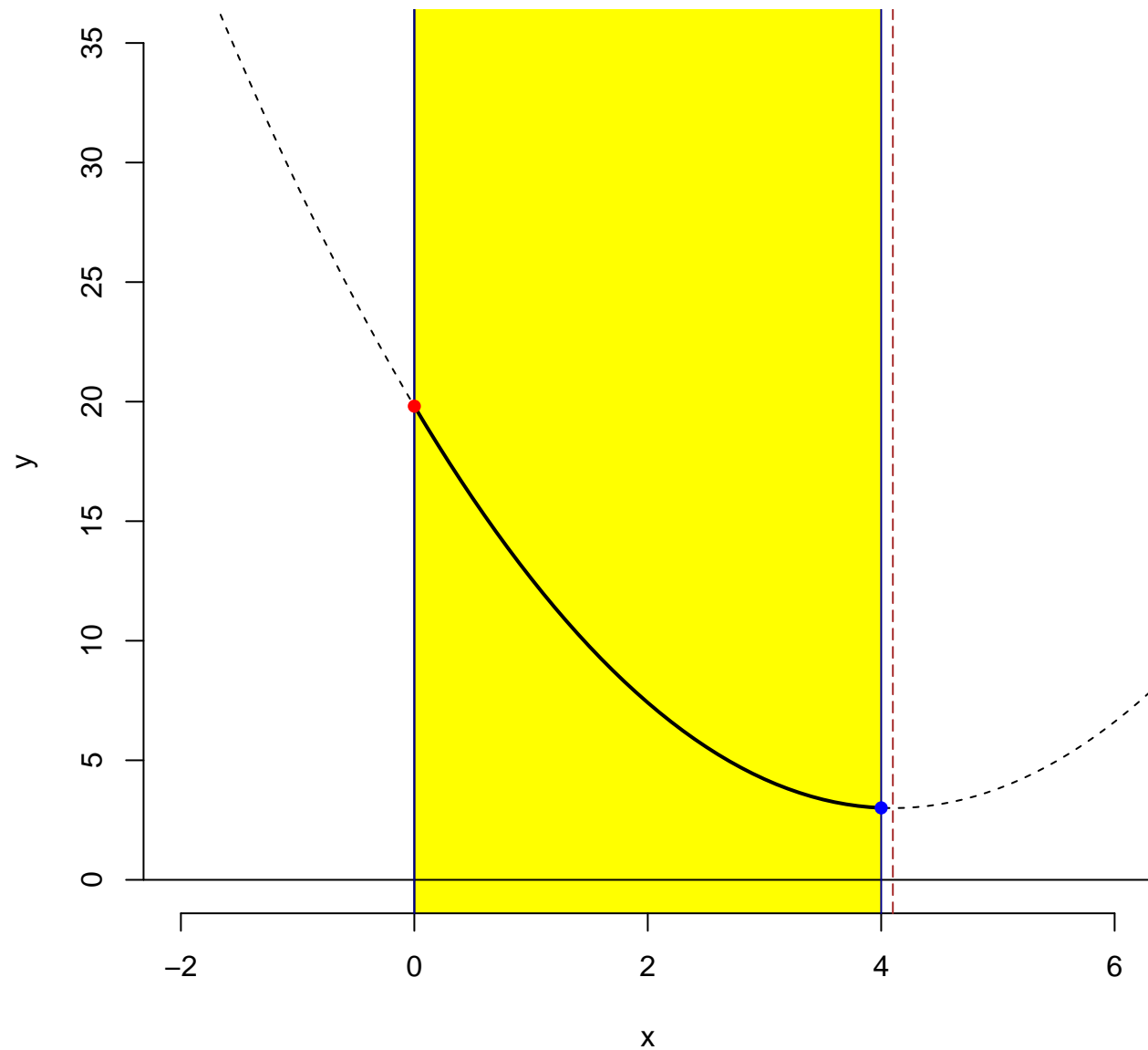**a = 3.9**

a = 4

Minimum point at x = 4, which is incidentally the vertex

a = 4.1
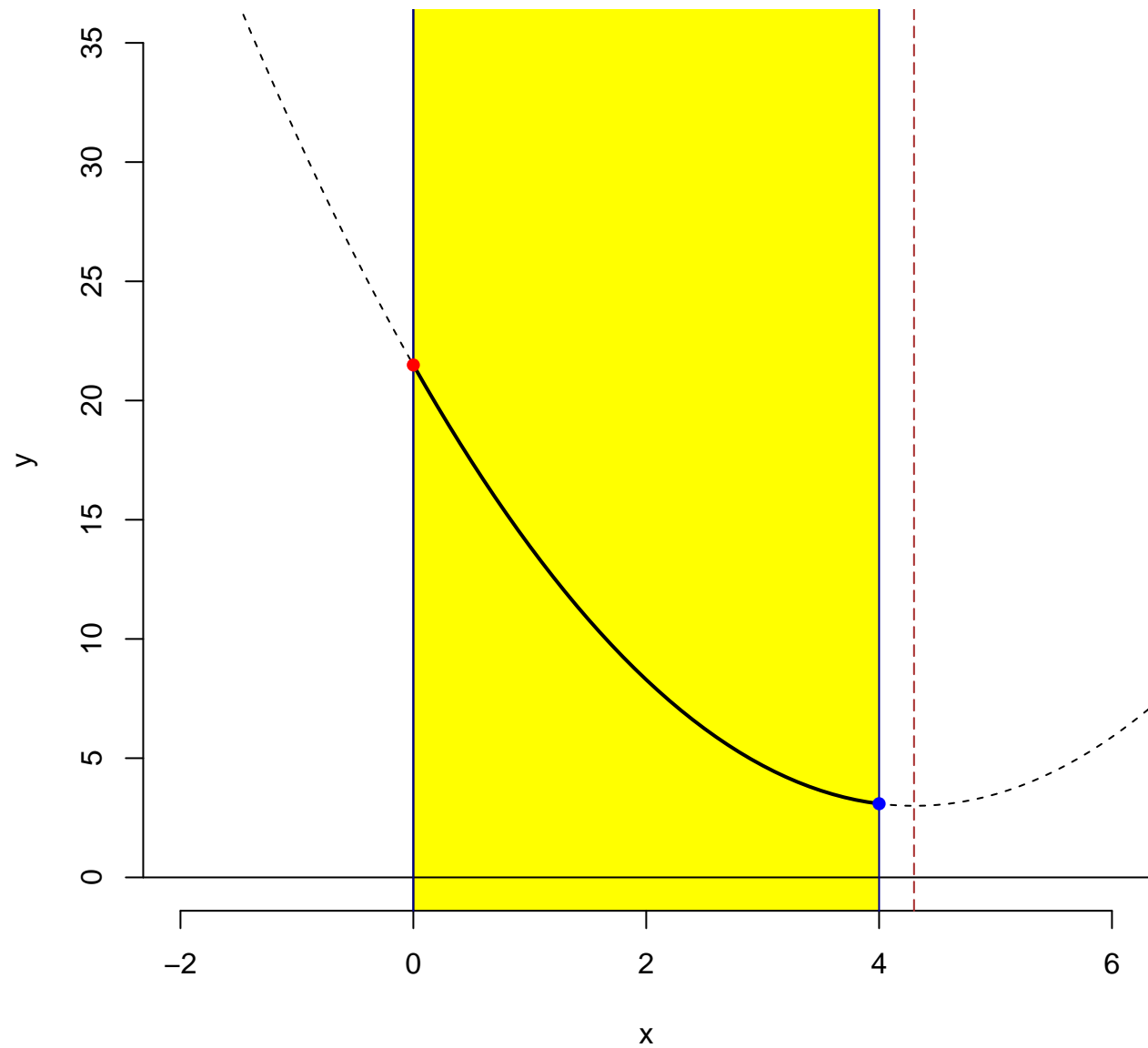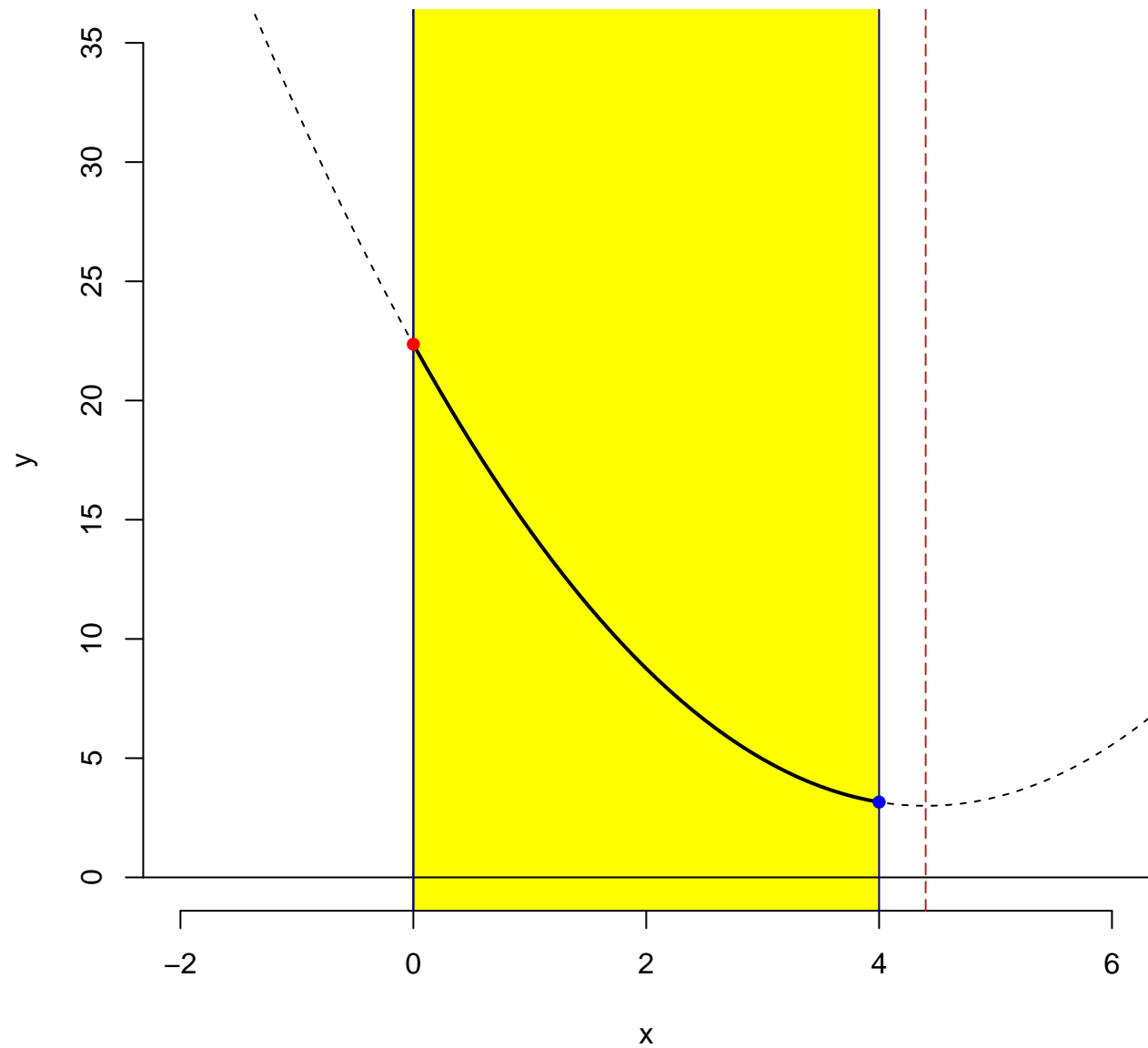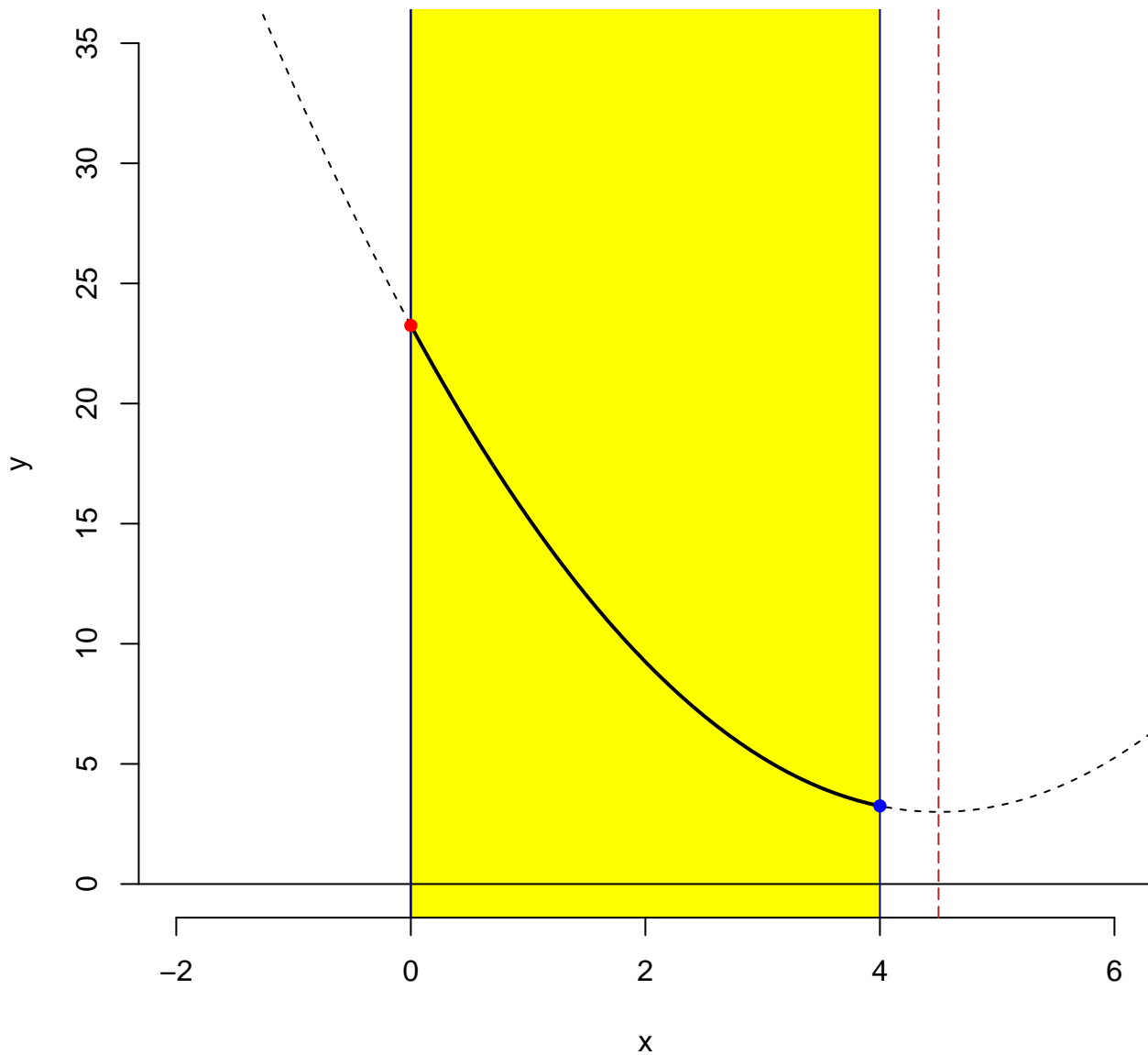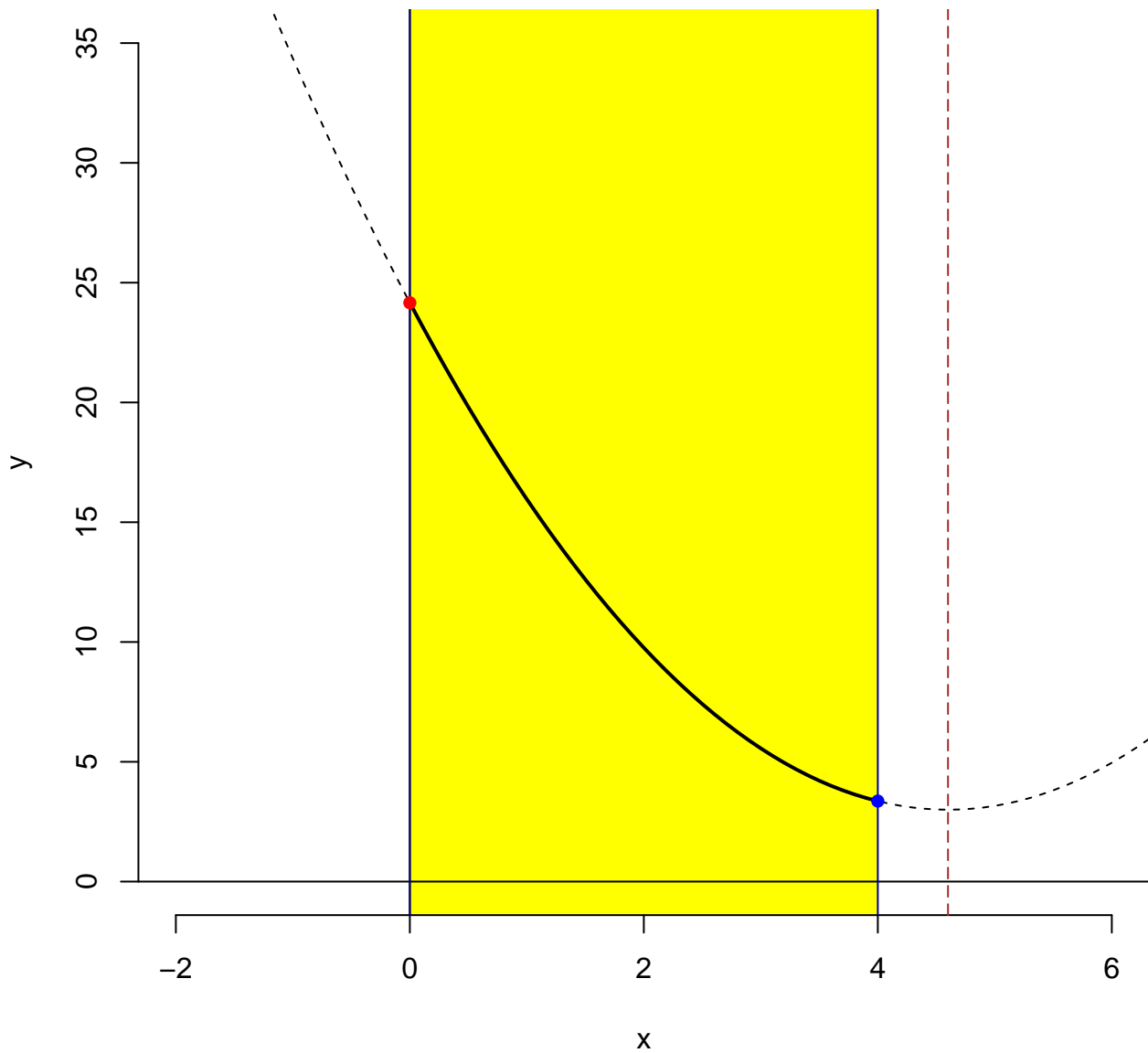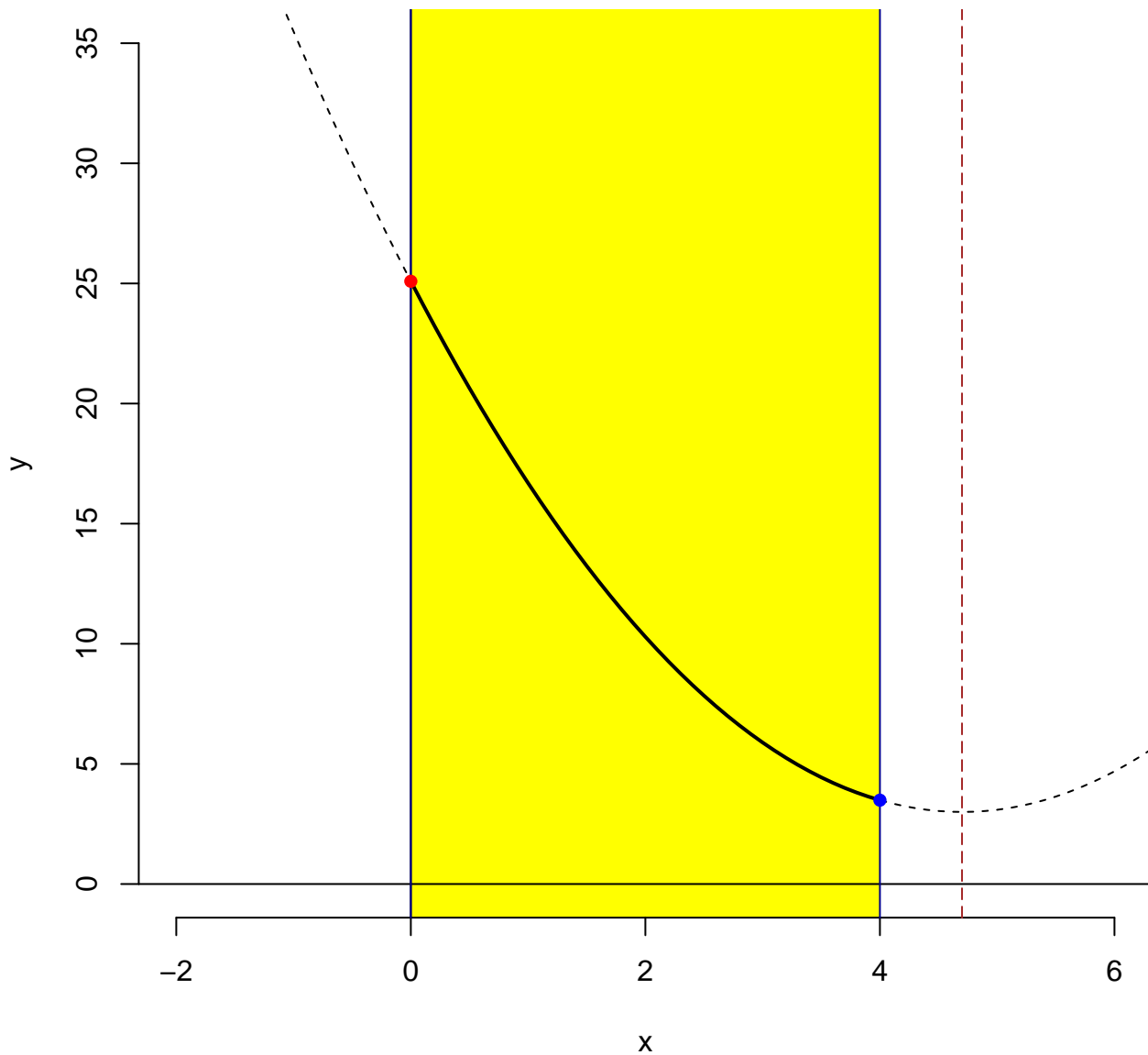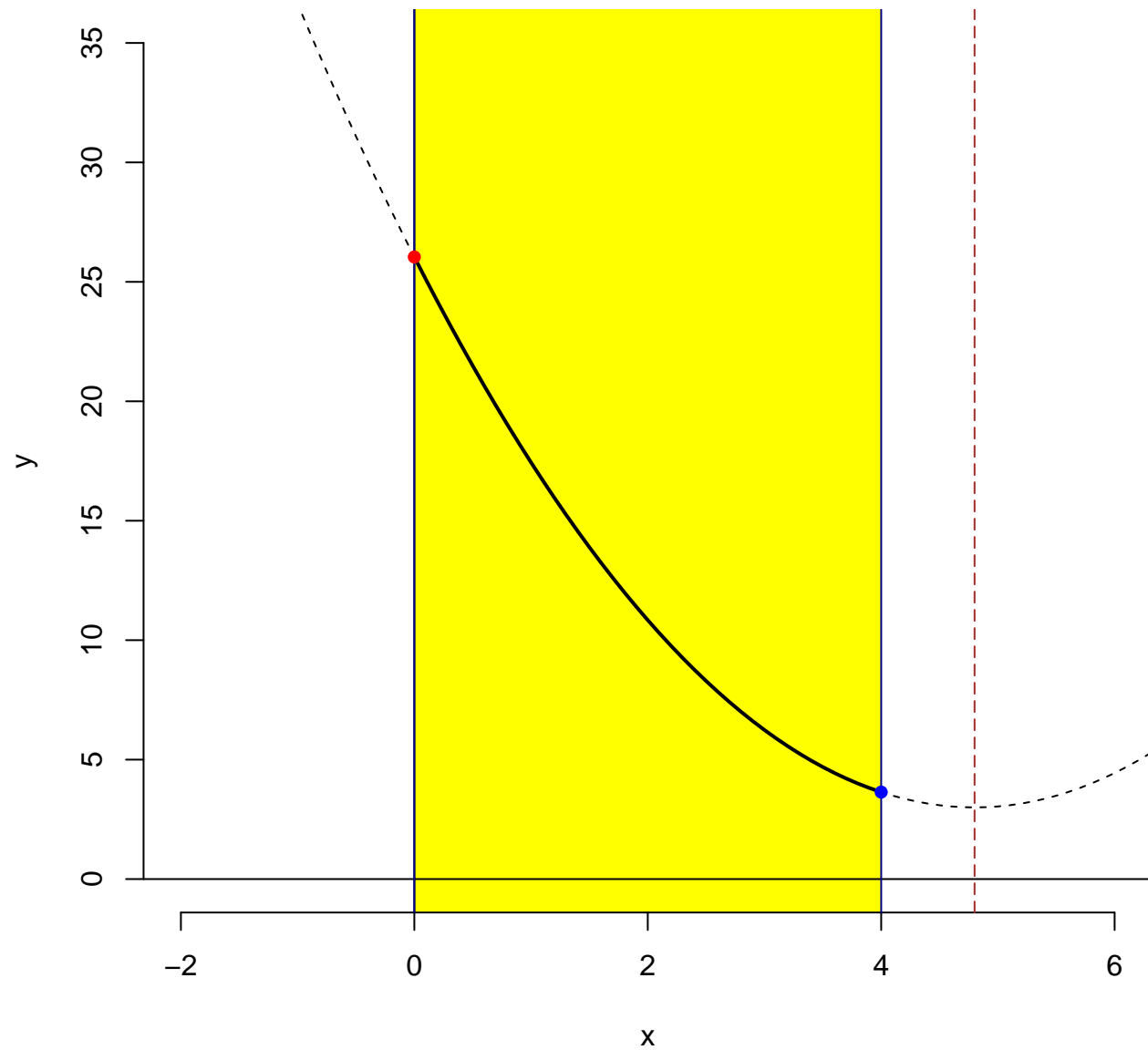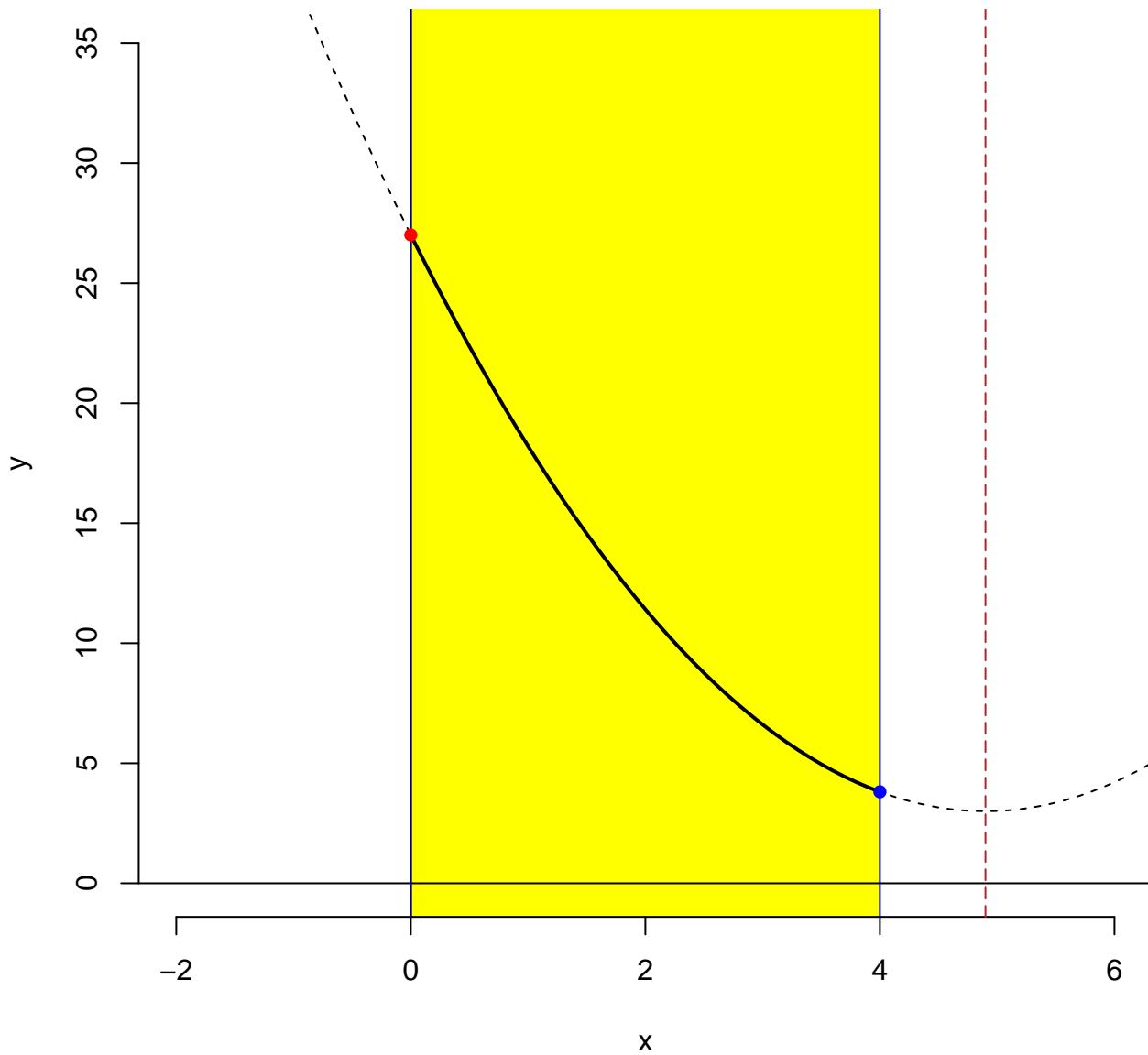
a = 4.2
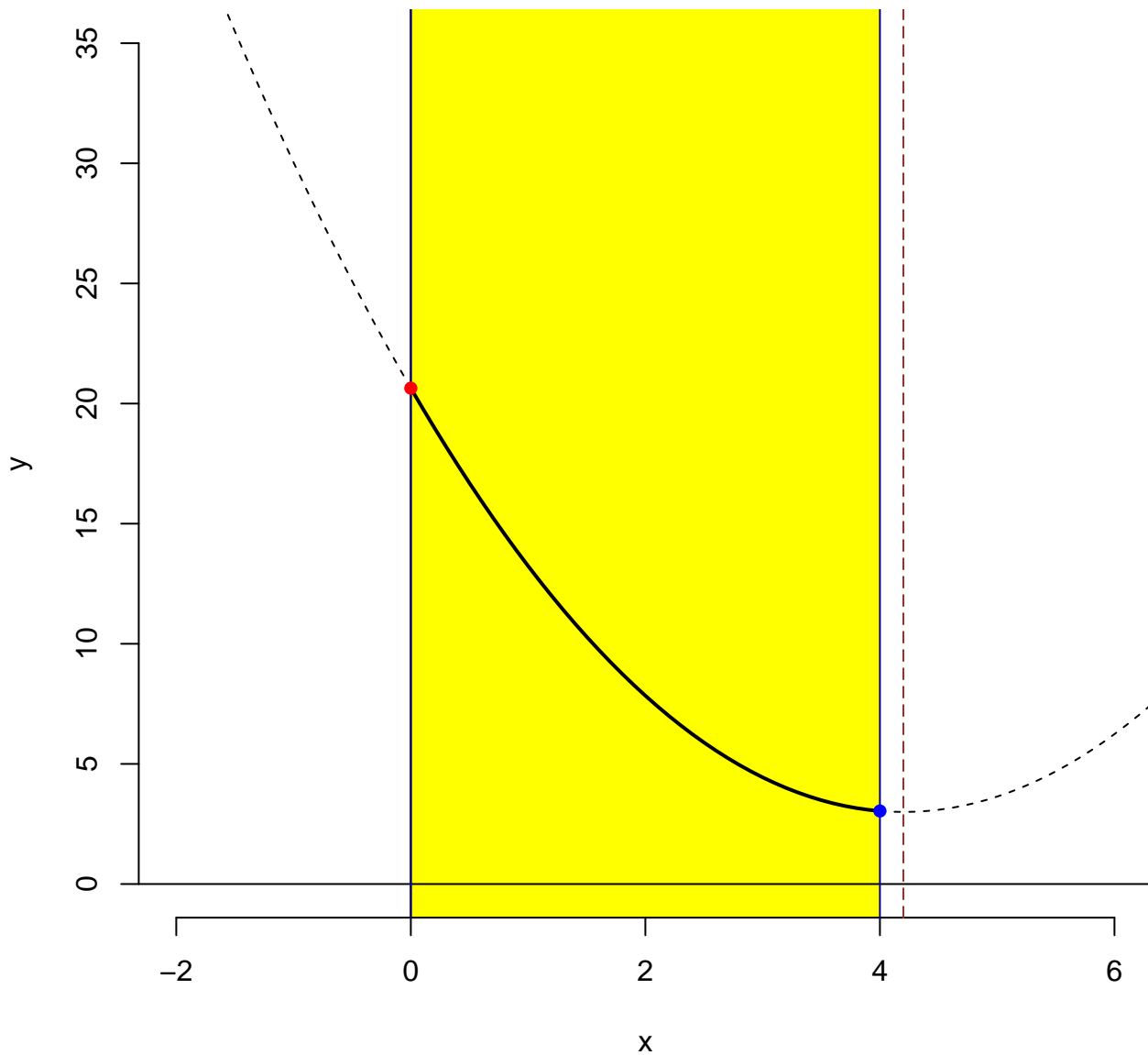
a = 4.3

a = 4.4

a = 4.5

a = 4.6

a = 4.7

a = 4.8

a = 4.9

a = 5