

## Conic Section: Parabola - Class XI

### Related Questions with Solutions

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#### Questions

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##### Question: 01

If the parabola  $x^2 = 4ay$  passes through the point (3, 2), then the equation of the directrix of the parabola is:

- A.  $8y + 9 = 0$
- B.  $8x + 9 = 0$
- C.  $2y + 9 = 0$
- D.  $2x + 9 = 0$

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#### Solutions

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##### Solution: 01

Since curve passes through [3, 2]

$$9 = 8a$$

$$a = \frac{9}{8}$$

$$x^2 = \frac{9}{2}y$$

$$a = \frac{9}{8}$$

$$y = -\frac{9}{8}$$

$$8y + 9 = 0$$

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#### Correct Options

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Answer:01

Correct Options: A