



## Polynomial Algebra X plus 1 Squared - Squared Variables under Square Root - Solve

**1** Find the value of y without using a calculator

$$\sqrt{y^2 + 2y + 1} = 11$$

- |   |        |   |        |
|---|--------|---|--------|
| A | y = 16 | B | y = 12 |
| C | y = 3  | D | y = 15 |
| E | y = 10 | F | y = 17 |

**2** Find the value of r without using a calculator

$$\sqrt{r^2 + 2r + 1} = 24$$

- |   |        |   |        |
|---|--------|---|--------|
| A | r = 17 | B | r = 41 |
| C | r = 3  | D | r = 27 |
| E | r = 23 | F | r = 5  |

**3** Find the value of p without using a calculator

$$\sqrt{p^2 + 2p + 1} = 23$$

- |   |        |   |        |
|---|--------|---|--------|
| A | p = 22 | B | p = 10 |
| C | p = 34 | D | p = 4  |
| E | p = 32 | F | p = 36 |

**4** Find the value of x without using a calculator

$$\sqrt{x^2 + 2x + 1} = 10$$

- |   |        |   |       |
|---|--------|---|-------|
| A | x = 15 | B | x = 9 |
| C | x = 11 | D | x = 3 |
| E | x = 14 | F | x = 1 |

**5** Find the value of q without using a calculator

$$\sqrt{q^2 + 2q + 1} = 14$$

- |   |        |   |        |
|---|--------|---|--------|
| A | q = 8  | B | q = 19 |
| C | q = 14 | D | q = 16 |
| E | q = 5  | F | q = 13 |

**6** Find the value of r without using a calculator

$$\sqrt{r^2 + 2r + 1} = 25$$

- |   |        |   |        |
|---|--------|---|--------|
| A | r = 28 | B | r = 16 |
| C | r = 6  | D | r = 10 |
| E | r = 40 | F | r = 24 |

**7** Find the value of z without using a calculator

$$\sqrt{z^2 + 2z + 1} = 19$$

- |   |        |   |        |
|---|--------|---|--------|
| A | z = 11 | B | z = 18 |
| C | z = 27 | D | z = 19 |
| E | z = 15 | F | z = 24 |

**8** Find the value of p without using a calculator

$$\sqrt{p^2 + 2p + 1} = 13$$

- |   |        |   |        |
|---|--------|---|--------|
| A | p = 13 | B | p = 16 |
| C | p = 12 | D | p = 11 |
| E | p = 15 | F | p = 10 |