Mobius Math Academy Name:_____

Math worksheet on *'Polynomials - Find the Root of Square Polynomial (Level 1)'*. Part of a broader unit on *'Polynomials and Quadratics - Advanced'*

Learn online:
app.mobius.academy/math/units/polynomials_and_quadratics_advanced/

1 This polynomial is a perfect square. What factor squared would give this polynomial?

$$y^2 + 0y + 0$$

a	b	c	d	e	f
$(y+0)^2$	$(y-3)^2$	$(y+2)^2$	$(y+1)^2$	$(y-1)^2$	$(y-2)^2$

2 This polynomial is a perfect square. What factor squared would give this polynomial?

$$p^2 + 18p + 81$$

a	$(p+8)^2$	**b**	$(p+12)^2$
c	$(p+7)^2$	**d**	$(p+10)^2$
e	$(p+9)^2$	**f**	$(p+6)^2$

3 This polynomial is a perfect square. What factor squared would give this polynomial?

$$x^2 + 4x + 4$$

a	$(x+1)^2$	**b**	$(x+3)^2$
c	$(x-1)^2$	**d**	$(x+0)^2$
e	$(x+2)^2$	**f**	$(x+5)^2$

4 This polynomial is a perfect square. What factor squared would give this polynomial?

$$n^2 + 0n + 0$$

a	$(n+0)^2$	**b**	$(n+3)^2$
c	$(n+2)^2$	**d**	$(n-2)^2$
e	$(n-1)^2$	**f**	$(n+1)^2$

5 This polynomial is a perfect square. What factor squared would give this polynomial?

$$d^2 + 6d + 9$$

a	b	c	d	e	f
$(d+2)^2$	$(d+3)^2$	$(d+0)^2$	$(d+5)^2$	$(d+1)^2$	$(d+4)^2$

6 This polynomial is a perfect square. What factor squared would give this polynomial?

$$n^2 - 2n + 1$$

a	$(n+0)^2$	**b**	$(n-4)^2$
c	$(n+1)^2$	**d**	$(n-2)^2$
e	$(n-1)^2$	**f**	$(n-3)^2$

7 This polynomial is a perfect square. What factor squared would give this polynomial?

$$x^2 + 14x + 49$$

a	$(x+10)^2$	**b**	$(x+9)^2$
c	$(x+5)^2$	**d**	$(x+4)^2$
e	$(x+6)^2$	**f**	$(x+7)^2$