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

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

$$z^2 + 18z + 81$$

a	$(z+9)^2$	**b**	$(z+8)^2$
c	$(z+10)^2$	**d**	$(z+12)^2$
e	$(z+11)^2$	**f**	$(z+6)^2$

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

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

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

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

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

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

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

$$p^2 + 4p + 4$$

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

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

$$c^2 - 10c + 25$$

a	**b**	**c**	**d**	**e**	**f**
$(c-8)^2$	$(c-2)^2$	$(c-5)^2$	$(c-3)^2$	$(c-4)^2$	$(c-7)^2$

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

$$m^2 + 2m + 1$$

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

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

$$z^2 + 16z + 64$$

a	$(z+9)^2$	**b**	$(z+8)^2$
c	$(z+5)^2$	**d**	$(z+10)^2$
e	$(z+6)^2$	**f**	$(z+11)^2$