

* For 6, 8, 11, 13, 16 + 17, factor by doing $(a)^3 \pm (b)^3$
 $a = b = ab =$
 $a^2 = b^2 =$ etc

6. $(x+5)(x^2+5x+25)$

7. $(x^2+10)(x^2-2)$

8. $(x-4)(x^2+4x+16)$

9. $(x^2-1)(x^2-4)$ (#3)

$(x+1)(x-1)(x-2)(x+2)$

10. $(x^2-1)(x^2+1)$

11. $(a+4)(a^2-4a+16)$

$(x-1)(x+1)(x^2+1)$

12. $(x^2-7)(x^2-1)$

13. $(u+2)(u^2-2u+4)$

$(x^2-7)(x-1)(x+1)$

14. $x = \pm 3$

$x = \pm \sqrt{5}$

15. $x = \pm 2i$

$x = \pm i\sqrt{2}$

16. $x = \frac{1}{2}$

$x = \frac{-1 \pm i\sqrt{3}}{4}$

17. $x = 3$

$x = \frac{-3 \pm 3i\sqrt{3}}{2}$

* On 16 + 17, make sure you show the "break-up" step w/ the Quadratic Formula

ex) $x = \frac{-3 \pm \sqrt{-75}}{2}$

$x = \frac{-3 \pm 5i\sqrt{3}}{2}$