

## 1.3 Factoring Trinomials

**Factor each completely.**

1)  $x^2 + 16x + 60$

2)  $v^2 - 10v + 24$

3)  $n^2 - n - 42$

4)  $m^2 + 3m - 10$

5)  $n^2 - 4n - 32$

6)  $x^2 + 6x - 7$

7)  $5b^2 - 42b - 27$

8)  $3n^2 + 29n - 10$

9)  $3v^2 - 26v + 48$

10)  $2x^2 - 13x + 21$

11)  $48n^3 - 84n^2 - 90n$

12)  $18x^2 - 15x - 150$

13)  $20x^3 + 34x^2 + 14x$

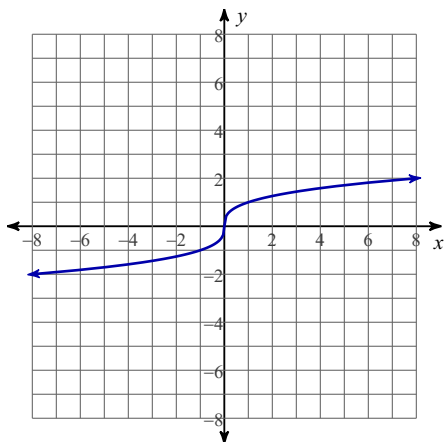
14)  $40b^2 - 52b - 12$

15)  $50a^2 - 155a + 75$

16)  $18n^2 - 152n - 90$

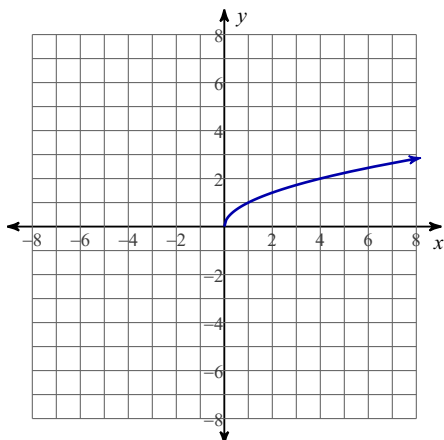
**Determine which parent function is shown.**

17)



18)  $f(x) = \begin{cases} x + 1, & x < 0 \\ x^2, & x \geq 0 \end{cases}$

19)



20)  $f(x) = \lfloor x \rfloor$