End Behavior of Polynomial Functions

Find the end behavior of the functions.

1) $f(x) = x^2 - 3x + 5$

$f(x) \to \_\_\_$, as $x \to \_\_\_$
$f(x) \to \_\_\_$, as $x \to \_\_\_$

2) $f(x) = -x^2 - 3x$

$f(x) \to \_\_\_$, as $x \to \_\_\_$
$f(x) \to \_\_\_$, as $x \to \_\_\_$

3) $f(x) = x^3 - 4x + 2$

$f(x) \to \_\_\_$, as $x \to \_\_\_$
$f(x) \to \_\_\_$, as $x \to \_\_\_$

4) $f(x) = -x^3 + 3x^2$

$f(x) \to \_\_\_$, as $x \to \_\_\_$
$f(x) \to \_\_\_$, as $x \to \_\_\_$

5) $f(x) = x^2 - 6x + 12$

$f(x) \to \_\_\_$, as $x \to \_\_\_$
$f(x) \to \_\_\_$, as $x \to \_\_\_$

6) $f(x) = x^3 + 8x + 16$

$f(x) \to \_\_\_$, as $x \to \_\_\_$
$f(x) \to \_\_\_$, as $x \to \_\_\_$

7) $f(x) = x^5 - 4x^3 + 4x + 2$

$f(x) \to \_\_\_$, as $x \to \_\_\_$
$f(x) \to \_\_\_$, as $x \to \_\_\_$

8) $f(x) = -x^4 + x^2 + 6$

$f(x) \to \_\_\_$, as $x \to \_\_\_$
$f(x) \to \_\_\_$, as $x \to \_\_\_$

9) $f(x) = -x^3 + 2x^2 + 8$

$f(x) \to \_\_\_$, as $x \to \_\_\_$
$f(x) \to \_\_\_$, as $x \to \_\_\_$

10) $f(x) = x^4 - x^2 - 3$

$f(x) \to \_\_\_$, as $x \to \_\_\_$
$f(x) \to \_\_\_$, as $x \to \_\_\_$

11) $f(x) = -x^2 - 7x - 12$

$f(x) \to \_\_\_$, as $x \to \_\_\_$
$f(x) \to \_\_\_$, as $x \to \_\_\_$

12) $f(x) = -x^2 + 8x$

$f(x) \to \_\_\_$, as $x \to \_\_\_$
$f(x) \to \_\_\_$, as $x \to \_\_\_$

13) $f(x) = -x^5 + 4x^3 - 2x - 4$

$f(x) \to \_\_\_$, as $x \to \_\_\_$
$f(x) \to \_\_\_$, as $x \to \_\_\_$

14) $f(x) = x^3 + 10x^2 + 22x + 4$

$f(x) \to \_\_\_$, as $x \to \_\_\_$
$f(x) \to \_\_\_$, as $x \to \_\_\_$