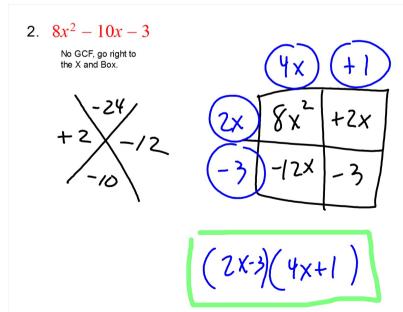
Factor each completely.

1.
$$3x^6 - 243x^2$$

2.
$$8x^2 - 10x - 3$$

3.
$$6x^5 - 96x^3 + 378x$$



1.
$$3x^6 - 243x^2$$

This is the difference of perfect squares which factors into $(x^2+9)(x^2-9)$

The sum of perfect squares doesn't factor any further

The difference of perfect squares can factor further

$$3x^2(x^2+9)(x^2-9)$$

The difference of perfect squares can factor further

