HW 10-2
Secondary Math 3 Lite

Name: $\qquad$
Date: $\qquad$ Class: $\qquad$
State the degree, zeros, and $x$-intercepts from the following

1. $f(x)=x^{2}\left(\begin{array}{ll}x & 1\end{array}\right)(x+4)$

Degree:
Zeros:
x-intercepts:
2. $f(x)=(x+3)^{3}\left(\begin{array}{ll}x & 2\end{array}\right)^{2}$

Degree:

## Zeros:

x-intercepts:

State the degree, zeros, and $x$-intercepts after factoring
5. $f(x)=x^{3} \quad x^{2} \quad 12 x$
6. $f(x)=x^{3} \quad x^{2} \quad 2 x$

Degree:
Zeros:
x-intercepts:
7. $f(x)=x^{3} \quad 5 x^{2}+6 x$
8. $f(x)=x^{3} \quad 3 x^{2} \quad 10 x$

Degree:
Zeros:
x-intercepts:

Degree:
Zeros:
x-intercepts:

Given the following zeros, write a function in factored form
9. $x=1,2,3$
10. $x=1,4,2$
11. $x=3,5,4$

