# Unit 7 Lesson 4: Equations and Their Zeros <br> 1 Math Talk: Equations with Zero (Warm up) <br> <br> Student Task Statement <br> <br> Student Task Statement <br> Mentally find a value for $a$ that will make the equation true. <br> ``` 4a=0 <br> 3\cdot0=14a <br> 0\cdota=0 <br> ab=0 with 

b\not=```
}

\section*{2 Evaluating Quadratic Equations}

\section*{Student Task Statement}
1. Evaluate each function for \(x=6\).
a. \(f(x)=(x+4)(x-6)\)
b. \(g(x)=(x-6)(x+6)\)
c. \(h(x)=x^{2}-6 x\)
d. \(j(x)=2\left(\frac{2}{3} x+8\right)(x-6)\)
e. \(k(x)=0.5 x^{2}-3 x\)
2. What do these functions have in common?
3. For each function, find another value of \(x\) that would give the same output as you found earlier.

\section*{3 Card Sort: Matching Equation Forms}

\section*{Student Task Statement}

Your teacher will give you a set of cards. Match each function in standard form with an equivalent function in factored form.```

