

Sep 7-7:07 AM

## Homework Questions



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## Quiz

Homework Questions
Calendar Math
1.5 Finding Zeros

HW 1.5 Finding Zeros Worksheet


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$$
\begin{aligned}
& \text { 9) } 18 x^{2}-32 \\
& 2\left(\sqrt{9 x^{2}}-\sqrt{16}\right) \\
& 2(3 x+4)(3 x-4)
\end{aligned}
$$

$$
y=-(x-2)^{2}+6
$$




$$
y=|x-3|-2
$$

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Ex $1 \quad f(x)=\underset{a}{2 x}(x+\underset{p}{7})$

$$
\begin{aligned}
& \text { Zero Product Property: it } \\
& a b=0 \text {, so if } a(x-p)(x-q)=0 \text { then }
\end{aligned}
$$

$$
(x-p)=0 \text { or }(x-y)=0 \text { or } a=0
$$

$$
\begin{aligned}
& \frac{2 x}{2}=\frac{0}{2} \quad x=0 \quad\{0,-7\} \\
& x+7=0 \\
& -7=-7
\end{aligned}
$$

Finding Zeros: $f(x)=a(x-p)(x-\eta)$, the zero product property can be used.

$$
\begin{aligned}
& f(x)=10 x^{2}-11 x+24 \\
& a \quad c \\
& (x-8)(x-3)-8)-34 \\
& x-8=0 \quad x=8 \quad\{8,-11 \\
& +8+8 \\
& x-3=0 \quad x=3 \\
& +3+3
\end{aligned}
$$

$$
\text { ex 5 } \sqrt{9 p^{2}}=\sqrt{4}
$$

$$
\begin{aligned}
& \quad(3 p-2)(3 p+2) \\
& \begin{array}{l}
3 p-2=0 \\
3 p=2 \\
3 p=\frac{2}{3} \\
3 p=2 / 3 \\
3 p+2=-2 \\
3 p=-\frac{2}{3} \\
3 p
\end{array} \quad\{2 / 3,-2 / 3\}-2 / 3
\end{aligned}
$$

$$
\text { 9) } \begin{aligned}
& 7 n^{2}-2 n=0 \\
& n(7 n-2)=0 \\
& n=0 \quad\{0,2 / 7\} \\
& 7 n-2=0 \\
& +2+2 \\
& \frac{7 n}{7}=\frac{2}{7} n=2 / 4
\end{aligned}
$$

$$
\text { 7) } \begin{aligned}
& 2 r^{2}+2 r-7=-3 r+r^{2}-1=0 \\
& 2 r^{2}+2 r-7+\underline{-3 r-r^{2}+11}=0 \\
& r^{2}+5 r-6=0 \\
& (r-1)(r+6)=0 \quad-1=6 \\
& r-1=0 \quad-6 \\
& +1+1=1 \quad r+6=0.6 r=-6
\end{aligned}\{1,-6\} ?
$$

$$
\begin{aligned}
& x^{2}-9 y^{2} \\
& (x-3 y)(x+3 y)
\end{aligned}
$$

