Complex solutions Activity 37

1.

	Equation	ClassPad in Real mode	ClassPad in Complex mode
a)	f(x) = 1	x = 0	x = 0
b)	f(x) = -1	$x = \pm 1$	$x = \pm 1$
c)	g(x) = 0	No solution	$x = \pm i$
d)	g(x) = -1	$x = \frac{5 \pm \sqrt{37}}{6}$	$x = \frac{5 \pm \sqrt{37}}{6}$
e)	h(x) = 0	x = 1	$x=1, x=\pm i$
f)	h(x) = 5	x = 2	$x = 2, x = -\frac{1}{2} \pm \frac{\sqrt{11}i}{2}$
		Edit Action Interactive $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Edit Action Interactive Solve f(x) = 0, x

2.

a)
$$x = \pm \sqrt{5}i$$

a)
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b)
$$x = \frac{2 \pm \sqrt{14}i}{3}$$