

Literal

#15) $\frac{a}{1} \left[2 = b + \frac{m}{a} \right]$; for a

$\frac{a}{1}$ is LCD

$a \cdot 2 = a \cdot b + m$ *Dist (LCD)*

$a \cdot 2 - a \cdot b = m$ *A.D.*

$a(2 - b) = m$ *Dist*

$\frac{a(2 - b)}{(2 - b)} = \frac{m}{(2 - b)}$

$a = \frac{m}{2 - b}$ *M.D.*

** Task: Clear fractions when they are in equation by distributing an LCD that clears all denominators.*

Oct 2-9:50 AM

Two-Step

#1) $\frac{4}{1} \left(b = \frac{a}{4} + 2 \right)$; for a

$24 = a + 8$ *Dist*

$16 = a$ *A.D.*

ck

$b = \frac{16}{4} + 2$

$b = 4 + 2$

$b = 6 \checkmark$

Oct 2-10:14 AM

#11) $4 \left(-2 = 2 + \frac{v}{4} \right)$

$-8 = 8 + v$ *Dist*

$-16 = v$ *A.D. ck*

$-2 = 2 + \frac{-16}{4}$

$= 2 + -4$

$-2 = -2 \checkmark$

Oct 2-10:17 AM

Radicals: Square Root Radicals

$\sqrt[2]{a} = a^{\frac{1}{2}}$

Index (2) *Radicand* (a) *Base* (1/2)

Oct 2-10:20 AM

#1) $(\sqrt{x})^2 = (10)^2$

$x = 100$ ** Task: is to undo the radical. By squaring it.*

ck

$\sqrt{100} = 10$

$(?)^2 = 100 \quad 10 = 10 \checkmark$

$(10)^2 = 100$

Oct 2-10:24 AM

#6) $(5)^2 = (\sqrt{x+3})^2$

$25 = x + 3$

$22 = x$ *ck*

$5 = \sqrt{22+3}$

$= \sqrt{25}$

$5 = 5 \checkmark$

Oct 2-10:28 AM

#2) $(10)^2 = \left(\sqrt{\frac{m}{10}}\right)^2$

$10 \left(100 = \frac{m}{10}\right)$

$1000 = m$

Ok

$10 = \sqrt{\frac{1000}{10}}$

$= \sqrt{100}$

$10 = 10 \checkmark$

Oct 2-10:33 AM

#9) $-8 + \sqrt{5a-5} = -3$

↓
needs to be isolated

$(\sqrt{5a-5})^2 = (5)^2$ m.f.

$5a-5 = 25$

$\frac{5a}{5} = \frac{30}{5}$ m.f.

Ok $a = 6$ m.f.

$-8 + \sqrt{5(6)-5} = -3$

$-8 + \sqrt{30-5}$

$-8 + \sqrt{25}$

$-8 + 5$

$-3 = -3 \checkmark$

Oct 2-10:36 AM

#12) $\frac{-10 \sqrt{v-10}}{-10} = \frac{-60}{-10}$

$(\sqrt{v-10})^2 = (6)^2$ m.f.

$v-10 = 36$

$v = 46$

Ok

$-10 \sqrt{46-10} = -60$

$-10 \sqrt{36}$

$-10 \cdot 6$

$-60 = -60 \checkmark$

Oct 2-10:43 AM