1. Solve. Check your solutions by substituting into the left and right sides of the equation and evaluating.

$x^{3x+1} - 0^{x-2}$	$h 2 r^2 v - 1 - r^3 v + 1$
a. $3^{5n+1} = 9^{n+2}$	0.25^{2} $f = 5^{3}$

c. $4^{2(p-1)} = 64^{3p+4}$

d. $1000^{2m-5} = 10^{3(m+3)}$

e. $4^{x-3} = 8^{x+1}$

f. $27^{w-3} = 9^{2(w+4)}$