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a) $x^2 = 4x$

$\frac{x^x}{x} = 4$

$x = 4$

b) $\frac{1}{\sqrt{5}-2} = a + b\sqrt{5}$

=

c) $(-1, 2)$ $r = 5$

$(x-y) + (-1 - 2)^2 = 5^2$

$(x-y) + (2-1)^2 = 25$

d) $|2x+3|=9$

$2x+3=9$

$2x=6$

$x=3$

e) $x^2\tan x$

$y'= 2x\tan x + \sec^2 x \cdot 2x$

$y' = 2x\tan x + 2x\sec^2 x$

f) ~~$\frac{a(r^n-1)}{r-1}$~~

$\frac{a}{1-r}$

$\frac{1}{1-\frac{1}{3}}$

$= \frac{3}{2} = 1.5$

g) $f(x)=\sqrt{x-8}$

$=$

Additional writing space on back page.