

$p q^{x-1}$ Find $p(3)$
 $p = .65$
 ① $(.65)(.35)^2 = .079625$
 Geomet pdf $(.65, 3) = .079625$

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$P(q)^{x-1}$
 ② $p = .45$
 $P(1)$
 $(.45)(.55)^0 = .45$

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Poisson
 ⑤ $P(x) = \frac{\mu^x e^{-\mu}}{x!}$ $p(4)$ $\mu = 5$
 λ
 $\frac{5^4 e^{-5}}{4!} = .175$

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6. $p(3)$ $\mu = 6$
 $\frac{6^3 e^{-6}}{3!} = .089$
 poisson pdf $(6, 3) =$

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8. $p(5)$ $\mu = 9.8$
 $\frac{\mu^x e^{-\mu}}{x!}$ $\frac{9.8^5 e^{-9.8}}{5!} = .042$
 poisson pdf $(9.8, 5)$

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15 $p = .19$
 $p(5)$
 a) $(.19)(.81)^4 = .082$
 Geomet pdf $(.19, 5) = .081788...$

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15
 Geometpdf .19,1
 .19,2
 c + .19,3
 1- Geometcdf .19,3
 1- .468559 = .531

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2 $\mu = 2$
 a) Poisson pdf (2,5)
 .036
 a) P(5) b) 1- poissoncdf (2,4)
 .053
 c) 1- poissoncdf (2,5)
 .017

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Poissonpdf (4,3)
 $\mu = 4$
 P(3)
 a) .195
 b) poissoncdf (4,3) = .434
 c) 1- poissoncdf (4,3) = 1- .434
 .566

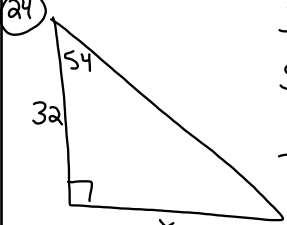
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18 $p = 64.8\% = .648$
 P(2)
 a) geomet pdf (.648, 2)
 .228
 b) geomet pdf (.65, 1) $\approx .878$
 .228 + .65 .65 c) 1- .878 = .122

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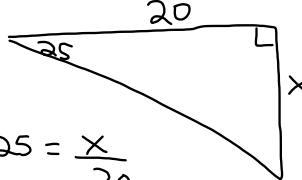
22 $\mu = 9.5$
 P(10)
 a) Poisson (9.5, 10) = .124
 b) poissoncdf (9.5, 10)
 c) 1- poissoncdf (9.5, 10)

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 Soh Cah Toa
 $\frac{S}{h} = \frac{C}{h} = \frac{a}{a}$
 $\frac{\tan 54}{1} = \frac{x}{32}$
 $32 \tan 54 = 44$

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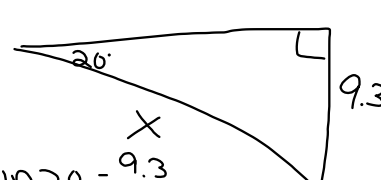
25



$\tan 25 = \frac{x}{20}$
 $20 \tan 25 = 9.3$

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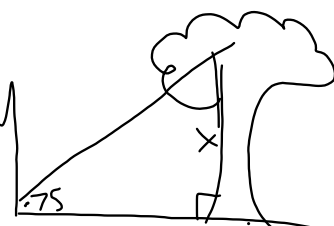
Ex



$\sin 20 = \frac{9.3}{x}$
 $x \sin 20 = 9.3$
 $\frac{x \sin 20}{\sin 20} = \frac{9.3}{\sin 20}$
 $x = 27.19$


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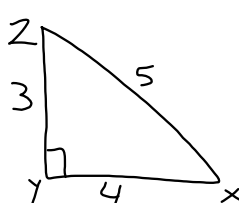


$\tan 75 = \frac{x}{4}$

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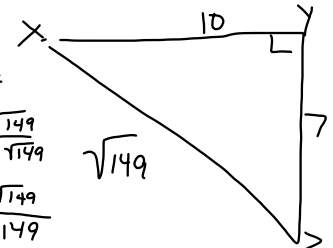


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$\sin x = \frac{3}{5} = .6$
 $\cos x = \frac{4}{5} = .8$

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$\sin x = \frac{7}{\sqrt{149}}$
 $\frac{7 \sqrt{149}}{\sqrt{149} \sqrt{149}} = \frac{7 \sqrt{149}}{149}$

$\cos \frac{10}{\sqrt{149}} = \frac{\sqrt{149}}{149}$
 $\frac{10 \sqrt{149}}{149}$

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$\tan A = \frac{18}{27} = \frac{6}{9} = \frac{2}{3} \approx 0.667$
 $\tan B = \frac{27}{18} = \frac{3}{2} = 1.5$

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$\tan A = \frac{24}{56} = \frac{3}{7}$
 $\tan B = \frac{7}{3}$

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$\tan 27 = \frac{x}{12}$
 $12 \tan 27 = 6.1$
 $\tan 69 = \frac{25}{x}$
 $\frac{25}{\tan 69} = 9.6$

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$\tan 41 = \frac{x}{19}$
 $19 \tan 41 = 16.5$

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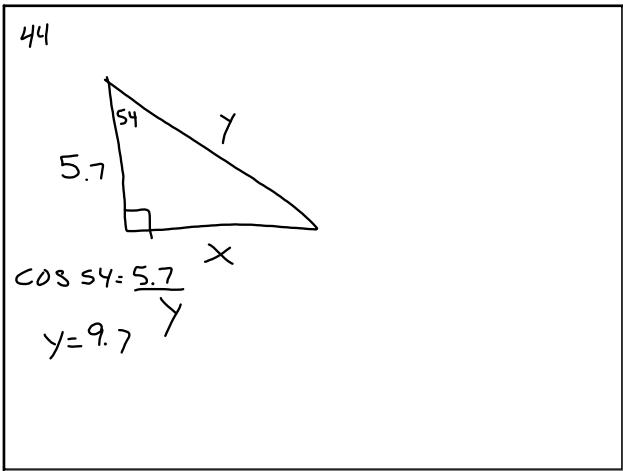
$\cos 44 = \frac{y}{14}$
 $14 \cos 44 = y$
 $y = 10.1$
 $\sin 44 = \frac{x}{14}$
 $14 \sin 44 = 9.7$

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$\tan 32 = \frac{8}{x}$
 $\frac{8}{\tan 32} = x$
 $x = 12.8$
 $\sin 32 = \frac{8}{32}$
 $\frac{8}{\sin 32} = 15.1 = y$
 $\cos 32 = \frac{x}{15.1}$

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