

I'm not a robot!

Solving Indices

Class/Set:

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1: Solve the following:

a) $3^x = 27$ b) $4^x = 64$ c) $5^x = 25$ d) $2^x = 4$
 $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$

2: Solve the following:

a) $3^x = 1$ b) $4^x = 1$
 $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$

3: Solve the following:

a) $5^x = \frac{1}{125}$ b) $2^x = \frac{1}{4}$ c) $3^x = \frac{1}{9}$ d) $5^x = \frac{1}{125}$
 $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$

4: Solve the following:

a) $16^x = 4$ b) $8^x = 2$ c) $27^x = 3$ d) $16^x = 4$
 $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$

5: Solve the following:

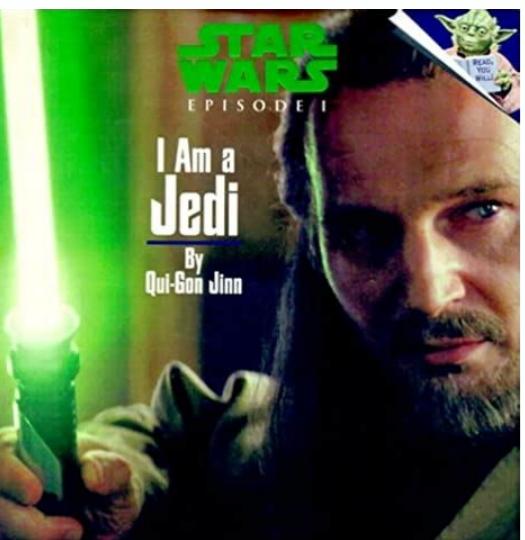
a) $125^x = \frac{1}{5}$ b) $8^x = \frac{1}{2}$ c) $25^x = \frac{1}{5}$ d) $9^x = \frac{1}{3}$
 $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$

6: Solve the following:

a) $64^x = \frac{1}{4}$ b) $2^x = 1$ c) $5^x = 125$ d) $4^x = \frac{1}{16}$
 $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$
e) $9^x = 3$ f) $2^x = \frac{1}{2}$ g) $4^x = 1$ h) $9^x = \frac{1}{3}$
 $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$

Free worksheet created by MATHSprint. Solving Indices:1

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2. Compute the mean and variance of the geometric distribution.
 Hints: It is sometimes easier to compute $E[X(X-1)]$ than $E[X^2]$. Note that $E[X(X-1)] = E[X^2] - E[X]$. The geometric series formula is

$$\sum_{n=0}^{\infty} r^n = \frac{1}{1-r}$$

If you differentiate this once and then again you get the useful identities:

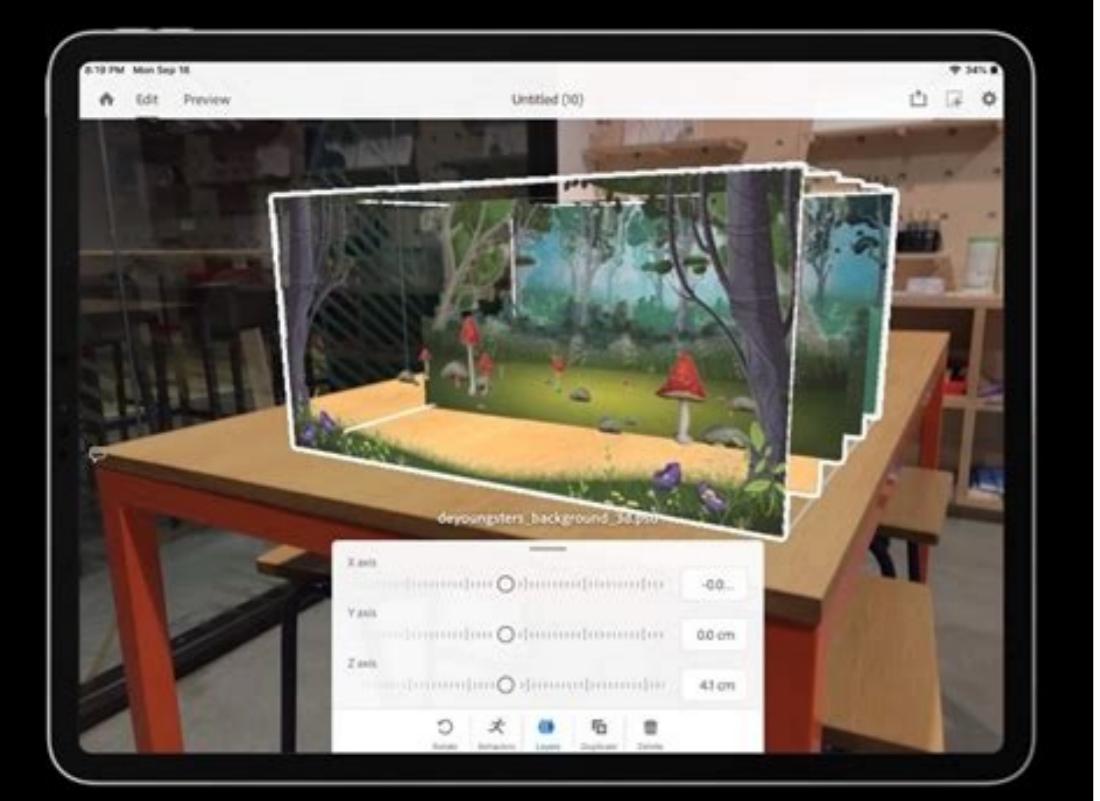
$$\sum_{n=1}^{\infty} nr^{n-1} = \frac{d}{dr} \frac{1}{1-r}, \quad \sum_{n=2}^{\infty} n(n-1)r^{n-2} = \frac{d^2}{dr^2} \frac{1}{1-r}$$

The following is not to be turned in. This same "summation by differentiating" trick can be used in other setting. Take the binomial identity

$$(x+y)^n = \sum_{k=0}^n \binom{n}{k} x^k y^{n-k}$$

Differentiate with respect to x , then set $x = p, y = 1 - p$ and you get an identity that helps you compute the mean of the binomial distribution.

Differentiate twice and you get an identity that will lead to the variance.



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