\leftarrow	Graded quiz on Tangent Lines to Functions, Exponents and Logarithms Bewerteter Test • 45 min	Fällig 6. Sep. 23:59 PDT	
	✓ Herzlichen Glückwunsch! Sie haben bestanden! zum Bestehen 75 % oder höher Lernen Sie weiter	100 %	
	Graded quiz on Tangent Lines to Functions, Expo and Logarithms	nents	
	NEUESTE EINREICHUNGSBEWERTUNG 1∩∩%		
\leftarrow	Graded quiz on Tangent Lines to Functions, Exponents and Logarithms Bewerteter Test · 45 min	Fällig 6. Sep. 23:59 PDT	
	\bigcirc 49 $^{-1}$ \bigcirc (7 2)		
	 ● 7⁻² ○ \begin {align} {\large \frac{7}{7^3}}\end {align} 		
	Richtig The rule for a factor to a Negative exponent is to divide by the same factor to a positive exponent with the same absolute value.		
\leftarrow	Graded quiz on Tangent Lines to Functions, Exponents and Logarithms Bewerteter Test • 45 min 9.40 × 10 Knometers	Fällig 6. Sep. 23:59 PDT	
	$igodeligate{igodeligatebox{0.946}{\times}} 10^{15}$ meters. $0.946 imes 10^{16}$ $9460 imes 10^{12}$ meters		
	\checkmark Richtig $9,460$ is (9.4×10^3) meters and one trillion meters is 10^{12} meters. $(9.4\times10^3)(10^{12})$ = 9.4×10^3		
	10^{15} . A kilometer is 1000 meters.		
	3. Simplify $(x^8)(y^3)(x^{-10})(y^{-2})$	1 / 1 Punkten	
\leftarrow	Graded quiz on Tangent Lines to Functions, Exponents and Logarithms Bewerteter Test · 45 min (***/(***)** (***/(***)** (****)** (***/(***)** (***/(***)** (***/(***)** (***/(***)** (***/(***)** (***/(***)** (***/(***)** (***/(***)** (***/(**)** (***/(**)** (***/(**)** (***/(**)** (***/(**)** (***/(**)** (***/(**)** (***/(**)** (***/(**)** (***/(**)** (***/(**)*)* (***/(**)*)* (***/(**)* (***/(**)* (***/(**)* (***/(**)* (***/(**)* (***/(**)*)* (***/(**)* (***/(**)* (***/(**)*)* (**	Fällig 6. Sep. 23:59 PDT	
	\bigcirc $(x^2)(y)$ \checkmark Richtig		
	By the Division and Negative Powers Rule, this is $(x^{(8-10)})(y^{(3-2)})$		
	4. Simplify $[(x^4)(y^{-6})]^{-1}$	1 / 1 Punkten	
	$\bigcirc (x^3)(y^{-7})$ $\bigcirc Narge Negin Calign Mracs(vA-SANN)/ANN and Calign N$		
\leftarrow	Graded quiz on Tangent Lines to Functions, Exponents and Logarithms $^{ m Bewerteter\ Test\cdot 45\ min}$ By the Power to a Power Rule, each of the exponents is multiplied by (-1)	Fällig 6. Sep. 23:59 PDT	_
	5. Solve for x :	1 / 1 Punkten	
	$\log_2\left(39x\right) - \log_2\left(x - 5\right) = 4$		
	 \begin \{align}\\frac\{23\\{80}\\end \{align}\\\ \text{begin \{align}\\frac\{-80\\{23}\\end \{align}\\\ \text{constant}\} 		
	\begin \align\\frac\{39\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
\leftarrow	Graded quiz on Tangent Lines to Functions, Exponents and Logarithms Bewerteter Test • 45 min Since both sides are equal, we can use them as exponents in an equation.	Fällig 6. Sep. 23:59 PDT	
	$2^{\log_2 \frac{39x}{(x-5)}} = 2^4$		
	\begin {align}\frac{39x}{(x-5)}=16\end {align}		
	39x = 16 imes (x-5) $39x = 16x - 80$		
	23x=-80		
\leftarrow	Graded quiz on Tangent Lines to Functions, Exponents and Logarithms Bewerteter Test · 45 min	Fällig 6. Sep. 23:59 PDT	
	6. Simplify this expression: $\frac{1}{2} \sqrt{\frac{-3}{2}}$	1 / 1 Punkten	
	$(x^{rac{1}{2}})^{rac{-3}{2}}$ $\bigcirc x^{-1}$ $\circledcirc x^{rac{-3}{4}}$		
	$\bigcirc x^{rac{1}{3}}$		
\leftarrow	Graded quiz on Tangent Lines to Functions, Exponents and Logarithms Bewerteter Test · 45 min	Fällig 6. Sep. 23:59 PDT	
	$x^{rac{1}{2} imesrac{-3}{2}}=x^{rac{-3}{4}}$		
	$^{7.}$ Simplify $\log_{10}1000 + \log_{10}rac{1}{10000}$ \odot -1	1 / 1 Punkten	
	$\bigcirc rac{1}{10} \ \bigcirc \log_{10} -10$		
	O 1		
\leftarrow	Graded quiz on Tangent Lines to Functions, Exponents and Logarithms Bewerteter Test • 45 min	Fällig 6. Sep. 23:59 PDT	
	$\log_{10}(\frac{1000}{100000}) = \log_{10}(\frac{1}{10}) = -1$		
	$^{8.}$ If $\log_3 19 = 2.680$, what is $\log_9 19$?	1 / 1 Punkten	
	$^{\circ}$ 5.216 $^{\circ}$ 0.4347		
	1.3040.8934		
\leftarrow	Graded quiz on Tangent Lines to Functions, Exponents and Logarithms For convert from \log_3 to \log_9 , divide by $\log_3 9$. Which is equal to 2 , so	Fällig 6. Sep. 23:59 PDT	
	the answer is 1.34		
	$^{9.}$ If $\log_{10}b=1.8$ and $log_ab=2.5752$, what is a ? $\bigcirc 6$	1 / 1 Punkten	
	○ 4● 5		
	\bigcirc 3		
\leftarrow	Graded quiz on Tangent Lines to Functions, Exponents and Logarithms Bewerteter Test • 45 min	Fällig 6. Sep. 23:59 PDT	
	\log_a b=\begin {align}\frac{\log_x b}{\log_x a}\cdot q \end {align} $\log_a b = 2.5752 \text{ and } \log_{10} b = 1.8$		
	Therefore, $\log_{10} a$ must equal to \begin {align} \frac{1.8}		
	{2.5752}=0.69897\end {align} $ {\it Treating both sides of equation } \log_{10}a=0.69897 \ {\it as exponents of } 10 \\ {\it gives } a=10^{0.69897}=5 $		
\leftarrow	Graded quiz on Tangent Lines to Functions, Exponents and Logarithms Bewerteter Test • 45 min	1/1 Punkten Fällig 6. Sep. 23:59 PDT	
	○ 20.01 ○ 19.01%		
	O 17.01%		
	✓ Richtig \begin {align} \frac{\ln{\frac{7400}{1600}}}{8.5}=0.18017\end {align}		
	$^{11.}$ A pearl grows in an oyster at a continuously compounded rate of $.24$ per year. If a 25-year old pearl weighs 1 gram, what did it weigh when it began to	1 / 1 Punkten	
\leftarrow	Graded quiz on Tangent Lines to Functions, Exponents and Logarithms Bewerteter Test • 45 min	Fällig 6. Sep. 23:59 PDT	
	0.02478 0.2478		
	○ 0.0002478● 0.002478		
	$m{\checkmark}$ Richtig $e^{(0.24 imes25)}=rac{1}{x}$		
	{\large x=\begin {align} \frac{1}{(e^{0.24 \times 25})} \end {align}}		
\leftarrow	Graded quiz on Tangent Lines to Functions, Exponents and Logarithms Bewerteter Test • 45 min	Fällig 6. Sep. 23:59 PDT	
	x = 0.002478		
	$\log_2 z = 6.754$. What is $\log_{10}(z)$? 0.3508	1 / 1 Punkten	
	2.033160.82956		
	0.82930		
\leftarrow	✓ Richtig Graded quiz on Tangent Lines to Functions, Exponents and Logarithms Bewerteter Test • 45 min	Fällig 6. Sep. 23:59 PDT	
	$(\log_{10}z) imes(\log_210)=3.321928$ Graded quiz on Tangent Lines to Functions, Exponents and Logarithms		
\leftarrow	Bewerteter Test • 45 min {5.52 920}-2.055 rolenu {align}	Fällig 6. Sep. 23:59 PDT	
	^{13.} Suppose that $g:\mathbb{R} o\mathbb{R}$ is a function, and that $g(1)=10$. Suppose that $g'(a)$ is negative for every single value of a .Which of the following could possibly be $g(1.5)$?	1 / 1 Punkten	
	$\bigcirc g(1.5) = 103.4$ $\bigcirc g(1.5) = 9.7$		
	$igodelightarrow g(1.5) = 9.7$ $\bigcirc \ g(1.5) = 10.1$ $\bigcirc \ g(1.5) = 11$		
	\checkmark Richtig Since the slope of the tangent line to the graph of g is negative everywhere on the graph, we		