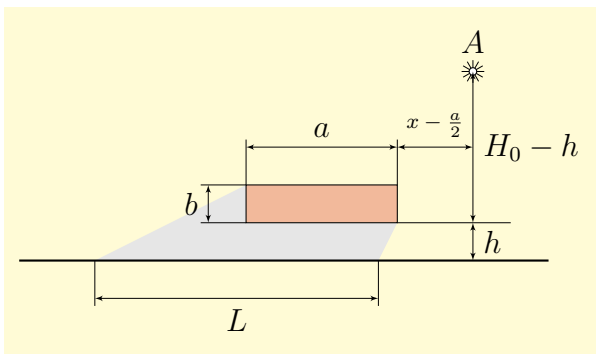


# Примеры

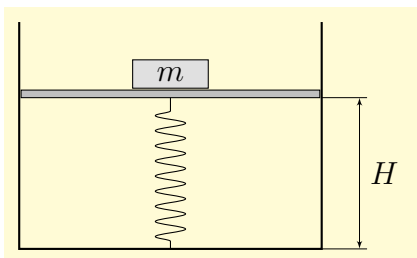


```
\lightsource{(0,0)}
\draw (0,0) node [above=.1cm] {$A$};
\fill[black!10] (-5, -2.5) -- (-3, -1.5) -- (-3, -2) -- (-1, -2) -- (-1.25,
-2.5);

\draw[glassRed] (-3,-2) rectangle ++(2, 0.5);
\draw[thick] (-6,-2.5) -- (1,-2.5);

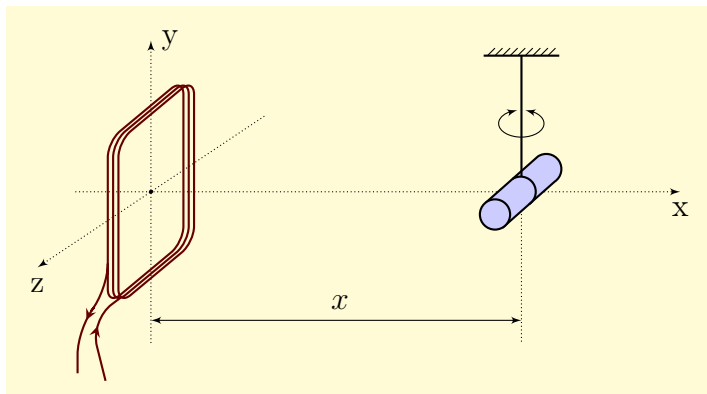
\dist{(-5,-2.5)}{(-1.25,-2.5)}{-90}{below}{$L$};
\dist{(-3,-1.5)}{(-1,-1.5)}{90}{above}{$a$};
\dist{(-3,-1.5)}{(-3,-2)}{180}{left}{$b$};

\draw[ultra thin,<->] (0,-2) -- (0,0) node [pos=.5,right] {$H_0-h$};
\draw[ultra thin,<->] (0,-2) -- (0,-2.5) node [pos=.5,right] {$h$};
\draw[ultra thin] (-1,-2) -- (0.5, -2);
\draw[ultra thin,<->] (-1,-1) -- (0,-1) node [pos = 0.5,above] {\scriptsize $x$
-\frac{a}{2}};
```



```
\draw[thick] (-2,3) -- (-2,0) -- (2,0) -- (2,3);
\draw[fill=black!25] (-1.975,2) rectangle
(1.975,2.1);
\draw[fill=black!12] (-.5,2.125) rectangle
(.5,2.5) node[pos=.5] {$m$};

\draw[decorate,decoration=
{snake,pre length=0.1cm,post length=0.1cm,segment
length=0.2cm,amplitude=0.2cm}]
(0,0) -- (0,2);
\dist{(2,2)}{(2,0)}{0}{right}{$H$}
```



```

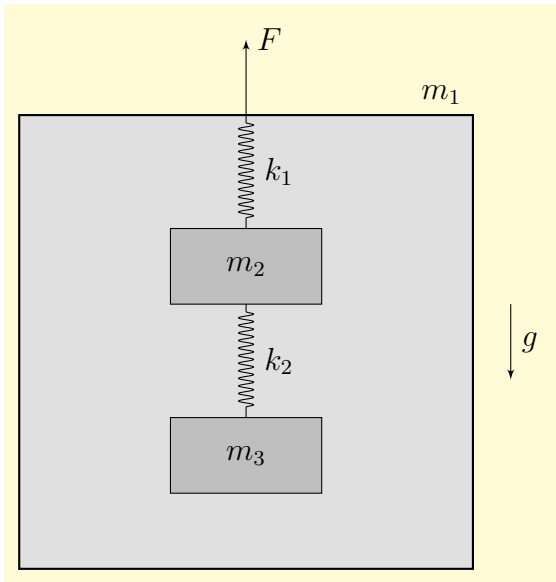
\draw[densely dotted, ->] (-1, 0) -- (7, 0) node[below] {x};
\draw[densely dotted, ->] (0, -2) -- (0, 2) node[right] {y};
\draw[densely dotted, ->] (1.5, 1) -- (-1.5, -1) node[below] {z};
\draw[fill] (0, 0) circle (0.02);

\draw[thick, color=red!40!black, rounded corners=6pt] (-0.5, -1.5) -- (0.5,
-2/3) -- (0.5, 1.5) -- (-0.5, 2/3) -- cycle;
\draw[thick, color=red!40!black, rounded corners=6pt, xshift=2pt] (-0.5, -1.5)
-- (0.5, -2/3) -- (0.5, 1.5) -- (-0.5, 2/3) -- cycle;
\draw[thick, color=red!40!black, rounded corners=6pt, xshift=-2pt] (-0.5, -1.5)
-- (0.5, -2/3) -- (0.5, 1.5) -- (-0.5, 2/3) -- cycle;
\draw[thick, color=red!40!black, rounded corners=10pt, reverse directed] (-0.4,
-1.4) --++ (-0.4, -0.3) --++ (0.2, -0.8);
\draw[thick, color=red!40!black, rounded corners=10pt, directed] (-0.57, -1.1)
--++ (0, -0.2) --++ (-.4, -0.5) --++ (0, -0.6);

\draw[densely dotted] (4.9, 0) --++ (0, -2);
\draw[<->] (0, -1.7) -- (4.9, -1.7);
\draw (2.5, -1.7) node[above] {$x$};

\draw[thick, fill=blue!20] (4.661, -0.466) -- (5.339, 0.134) arc
(-56.3:123.7:0.2) -- (4.439, -0.134) -- cycle;
\draw[thick, fill=blue!20] (4.55, -.3) circle (0.2);
\draw[thick] (4.9, 0.2) -- (4.9, 1.8);
\draw[thick] (5, -0.166) arc(-56.3:123.7:0.2);
\draw[thick] (4.4, 1.8) -- (5.4, 1.8);
\foreach \x in {4.45, 4.55, ..., 5.35}
\draw (\x, 1.8) -- (\x+0.1, 1.9);
\draw[<->, yscale = 0.6] (4.95, 1.8) arc (80:-260:0.3);

```



```
\draw[thick,fill=black!12] (-3,-3) rectangle (3,3) node [above left] {$m_1$};
\draw[->] (0,3) --++(0,1) node [right] {$F$};

\draw[decorate,decoration=
{snake,pre length=0.1cm,post length=0.1cm,segment length=0.1cm,amplitude=0.1cm
}]
(0,3) -- (0,1.5) node [pos=.5,right=.1cm] {$k_1$};

\draw[fill=black!25](-1,1.5) rectangle (1,.5) node [pos=.5] {$m_2$};

\draw[decorate,decoration=
{snake,pre length=0.1cm,post length=0.1cm,segment length=0.1cm,amplitude=0.1cm
}]
(0,.5) -- (0,-1) node [pos=.5,right=.1cm] {$k_2$};

\draw[fill=black!25](-1,-1) rectangle (1,-2) node [pos=.5] {$m_3$};

\draw[->] (3.5,.5) -- (3.5,-.5) node [pos=.5,right] {$g$};
```