

```

class PrintGalleryZoom(InteractiveScene):
class NoteThe256(InteractiveScene):
class CreatePiHouseLog(InteractiveScene):
class UsePi(CreatorsLog(InteractiveScene)):
class TheExponential(InteractiveScene):
class TheNaturalLog(InteractiveScene):
class CreatingTheSpiral(InteractiveScene):
    log_image_resolution = (21, 51)
    create_scale_factor = 3.5
    def construct(self):
        # Set up the four planes
        # Add log and exp arrows
        # Set up lines
        # Blank dot
        # Show start and end goal
        # Show the four steps
        # Show the final exp
        # Show the line from big to small
        # Show the corresponding loop
        # Show randy in log steps
        # Show the log lines
        # Diagonal line
        # Play with the factor
    def get_four_planes():
    def get_log_image_tiles(self, plane, n_rows=None, n_cols=None, resolution=(21, 51)):

```

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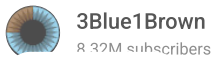
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### How (and why) to take a logarithm of an image



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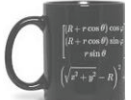
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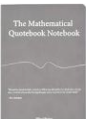
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